
FINAL DRAFT

DEFENDANT & MINE REPORTS

Historical Research Associates, Inc.
Missoula, MT

December 12, 1997

USEPA SF



1136585

List of Sources Cited in Annotations

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Moody's Investors Service. *Industrial Manual* (title varies). 1958-1996.

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U.S. Geological Survey. *Geology, Coeur d'Alene District, Shoshone County, Idaho*. Professional Paper 478. 1965.

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Draft Defendant Company Report

Alice Consolidated Mines, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
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Alice	1909 — 1926	46,512
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Total Tons of Mined Ore:	46,512
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Total Tons Mined in the CDA Basin from 1884 - 1980:	90,702,653
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Percent of CDA Basin Total:	0.05%
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The above defendant company is successor in interest to the following owner / operators:

Alice Mining Co.

Draft Mine Production Report

Alice Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1909	Alice Mining Co.	Owner	100.00% 2,907
1910	Alice Mining Co.	Owner	100.00% 2,907
1911	Alice Mining Co.	Owner	100.00% 2,907
1912	Alice Mining Co.	Owner	100.00% 2,907
1913	Alice Mining Co.	Owner	100.00% 2,907
1914	Alice Mining Co.	Owner	100.00% 2,907
1915	Alice Mining Co.	Owner	100.00% 2,907
	American Slime Concentrating Co.	Operator	0.00% 0
1916	Alice Mining Co.	Owner	100.00% 2,907
1917	Alice Mining Co.	Owner	100.00% 2,907
1918	Alice Mining Co.	Owner	100.00% 2,907
1919	Alice Mining Co.	Owner	100.00% 2,907
1920	Alice Mining Co.	Owner	100.00% 2,907
1921	Alice Mining Co.	Owner	100.00% 2,907
1923	Alice Mining Co.	Owner	100.00% 2,907
1924	Alice Mining Co.	Owner	100.00% 2,907
1925	Alice Mining Co.	Owner	50.00% 1,454
	Hercules Mining Co.	Operator	50.00% 1,454
1926	Alice Mining Co.	Owner	50.00% 1,454
	Hercules Mining Co.	Operator	50.00% 1,454
Total Short Tons of Mined Ore:			49,419

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Alice Mining Co.	46,512	94.12%
Hercules Mining Co.	2,907	5.88%
American Slime Concentrating Co.	0	0.00%

ALICE MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures represent Jasberg's total (Mines Grouped by Location II, p. 1) divided by the number of years of production provided by Mitchell and Bennett. Total short tons from this mine according to Jasberg and Mitchell and Bennett is 49,419 (p. 17).

SOURCES OF OWNERS AND OPERATORS

1909-1914, Alice Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1909, pp. 119-120; 1910, p. 18; 1911, p. 114; 1912, p. 160; 1922, p. 126) U.S. Geological Survey, *Mineral Resources of the United States* (1912, p. 733-734; 1913, p. 783)

1915, Alice Mining Co., owner, and American Slime Concentrating Co., operator. See U.S. Geological Survey, *Mineral Resources of the United States* (1915, p. 554)

1916-1924, Alice Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1916, p. 594; 1917, p. 487); Inspector of Mines, *Mining Industry of Idaho* (1922, p. 126; 1923, p. 137; 1924, p. 153)

1925-1926, Alice Mining Co., owner, and Hercules Mining Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1925, p. 177; 1926, p. 174)

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1915, HRA attributed all production to owner because operator could not be linked to a Defendant.

1925-1926, HRA divided production equally between the owner and the operator because both companies are linked to Defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Alice Mining Co. was bought out by Alice Consolidated Mines Co. in 1970 (Ridolfi Engineers and Associates, Inc., 1991, see "Alice Consolidated Mines, Inc.")

Alice Consolidated Mines, Inc. is a Defendant.

Hercules Mining Co. is linked to a Defendant. Hercules' production is included in Hecla Mining Company's share.

BLACK HAWK MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 16-17. Total short tons from this mine according to Mitchell and Bennett matches Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1916-1917, Blackhawk Mining & Development Company, owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1916; 1917).

1927-1944, Blackhawk Mining & Development Company, owner, and Federal Mining and Smelting Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1927; 1928; 1929; Federal Mining and Smelting Co. annual report, 1944).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1927-1944, HRA divided production equally between the owner and the operator because both companies are defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Blackhawk Mining & Development Company, a Defendant, is also a subsidiary of ASARCO, another Defendant. Production for this mine was included in ASARCO's share.

Federal Mining and Smelting Company, a Defendant, is also a subsidiary of ASARCO, another Defendant. Production for this mine was included in ASARCO's share.

Draft Mine Production Report

Coeur Unit Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1969	American Smelting and Refining Co.	Operator	83.34%
	Callahan Mining Corp.	Operator	8.33%
	Day Mines, Inc.	Operator	8.33%
1974	American Smelting and Refining Co.	Operator	83.34%
	Callahan Mining Corp.	Operator	8.33%
	Day Mines, Inc.	Operator	8.33%
1976	American Smelting and Refining Co.	Operator	83.34%
	Callahan Mining Corp.	Operator	8.33%
	Day Mines, Inc.	Operator	8.33%
1977	American Smelting and Refining Co.	Operator	83.34%
	Callahan Mining Corp.	Operator	8.33%
	Day Mines, Inc.	Operator	8.33%
1978	American Smelting and Refining Co.	Operator	83.34%
	Callahan Mining Corp.	Operator	8.33%
	Day Mines, Inc.	Operator	8.33%
1979	American Smelting and Refining Co.	Operator	50.00%
	Callahan Mining Corp.	Operator	5.00%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	5.00%
1980	American Smelting and Refining Co.	Operator	50.00%
	Callahan Mining Corp.	Operator	5.00%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	5.00%
Total Short Tons of Mined Ore:			755,620

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

American Smelting and Refining Co.	522,587	69.16%
Coeur d'Alene Mines Corp.	128,550	17.01%
Day Mines, Inc.	52,241	6.91%
Callahan Mining Corp.	52,241	6.91%

COEUR UNIT MINE ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 13-14. Total short tons from this mine according to Mitchell and Bennett is 755,618, or two tons less than Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

See below.

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1969, American Smelting and Refining Co., Callahan Mining Corp., and Day Mines, Inc., operators. Property operated by ASARCO under a 60%-40% working agreement of 1964 (Coeur d'Alene Mines Corp. annual report 1969/1970, see "Coeur Project"). Callahan had 1/12th interest in profit-sharing lease held by ASARCO. After capital recovery the 1/12th interest would equal 5% of the project. (Callahan Mining Corp. annual report, 1969, p.7) Day Mines participated by a 1/12 interest in ASARCO's lease on the Coeur property (Day Mines, Inc. annual report, 1969, p.5)

1974-1978, American Smelting and Refining Co., Callahan Mining Corp., and Day Mines, Inc., operators. See reference to amendments to Coeur agreement of 8-31-1964 in Coeur d'Alene Mines Corp. annual report, 1974, "Litigation"). For Callahan contribution of 8.33% to project, see Callahan Mining Corp. annual report, 1974, p.4. After investment was reimbursed, Callahan would have 5% interest in mine (1974 Callahan CAR, p.4). For reference to resolution of litigation, see Day Mines Inc. annual report, 1974, p. 5.

Coeur d'Alene Mines CAR's, 1975: after ASARCO's reimbursement for development's expenditures, ores "will be divided 40% to Coeur d'Alene Mines Corp. and 60% to American Smelting and Refining Co." (see "Note 1"); 1976: after ASARCO's reimbursement, Coeur d'Alene Mines Corp. "will have a 40% operating interest in the mine" (see "Litigation").

For 1976, see Callahan Mining Corp. annual report, 1976, p.3: Callahan entitled to 8.33% of mine profits until investment recovery; after recovery Callahan would retain a 5% interest.

For 1976, also see Day Mines, Inc. annual report, 1976, p. 3: DMI had 8.33% ownership in lease.

For 1977, see Callahan Mining Corp. annual report, 1977, p. 4: Callahan entitled to 8.33% of mine profits until investment recovery; after recovery Callahan will retain a 5% interest.

See also Day Mines, Inc. annual report, 1977, p. 3: Day Mines owned 8.33% interest in ASARCO's Coeur lease.

For 1978, see Callahan Mining Corp. annual report, 1978, pp. 3, 7: Callahan entitled to 8.33% of mine profits. When investment was fully recovered, expected during the first half of 1979, Callahan would receive 5% of profits.

For 1978, also see Day Mines, Inc. annual report, 1978, p. 4: DMI had an 8.33% participating interest in ASARCO's lease.

1979-1980, Coeur d'Alene Mines Corp., owner, and American Smelting and Refining Co., Callahan Mining Corp., and Day Mines, Inc., operators.

"Following payback of the Company's investment in Coeur during the first quarter of 1979, Callahan now receives 5 percent of mine profits..." (Callahan Mining Corp. annual report, 1979, p. 3).

For 1980, see Callahan Mining Corp. annual report, 1980, p. 8: Callahan received 5% of profits.

Also see Day Mines, Inc. annual report, 1980, p. 8: Day Mines's participating interest in ASARCO's lease represented 5% of Coeur net profits.

Also see ASARCO annual report, 1981, p. 18: ASARCO operated site under lease and joint venture arrangements. ASARCO had a 50% interest in Coeur in operating expenses and profits or losses.

COMPANY-DEFENDANT RELATIONSHIPS

American Smelting and Refining Co. is a Defendant.

Coeur d'Alene Mines Corp. is a Defendant.

Day Mines, Inc. merged with Hecla, a Defendant, in 1981.

Callahan Mining Corp., a Defendant, is also a subsidiary of Coeur d'Alene Mines Corp. Production from this mine by Callahan Mining Corp. is included in Coeur d'Alene Mines Corp.'s share.

Draft Mine Production Report

Galena Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1922	Callahan Zinc-Lead Co.	Owner	91
1926	Callahan Zinc-Lead Co.	Owner	8,600
1927	Callahan Zinc-Lead Co.	Owner	54,698
1928	Callahan Zinc-Lead Co.	Owner	3,429
1929	Callahan Zinc-Lead Co.	Owner	21,501
1930	Callahan Zinc-Lead Co.	Owner	11,654
1931	Callahan Zinc-Lead Co.	Owner	663
1935	Callahan Zinc-Lead Co.	Owner	95
1937	Callahan Zinc-Lead Co.	Owner	1,300
1938	Callahan Zinc-Lead Co.	Owner	79
1950	American Smelting and Refining Co.	Operator	1,089
	Day Mines, Inc.	Operator	363
	Vulcan Silver and Lead Co.	Owner	161
1951	American Smelting and Refining Co.	Operator	696
	Day Mines, Inc.	Operator	232
	Vulcan Silver and Lead Co.	Owner	103
1952	American Smelting and Refining Co.	Operator	8,570
	Day Mines, Inc.	Operator	2,857
	Vulcan Silver and Lead Co.	Owner	1,270
1953	American Smelting and Refining Co.	Operator	29,340
	Day Mines, Inc.	Operator	9,780
	Vulcan Silver and Lead Co.	Owner	4,347
1954	American Smelting and Refining Co.	Operator	32,915
	Day Mines, Inc.	Operator	10,972
	Vulcan Silver and Lead Co.	Owner	4,876
1955	American Smelting and Refining Co.	Operator	38,130
	Day Mines, Inc.	Operator	12,710
	Vulcan Silver and Lead Co.	Owner	5,649
1956	American Smelting and Refining Co.	Operator	59,349
	Day Mines, Inc.	Operator	19,783
	Vulcan Silver and Lead Co.	Owner	8,793
1957	American Smelting and Refining Co.	Operator	83,112
	Day Mines, Inc.	Operator	27,704
	Vulcan Silver and Lead Co.	Owner	12,313
1958	American Smelting and Refining Co.	Operator	80,880
	Callahan Mining Corp.	Owner	11,982
	Day Mines, Inc.	Operator	26,960
1959	American Smelting and Refining Co.	Operator	44,170
	Callahan Mining Corp.	Owner	58,893
	Day Mines, Inc.	Operator	14,723
1960	American Smelting and Refining Co.	Operator	18,261
	Callahan Mining Corp.	Owner	24,348
	Day Mines, Inc.	Operator	6,087
1961	American Smelting and Refining Co.	Operator	44,769

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1961	Callahan Mining Corp.	Owner	50.00%	59,693
	Day Mines, Inc.	Operator	12.50%	14,923
1962	American Smelting and Refining Co.	Operator	37.50%	49,879
	Callahan Mining Corp.	Owner	50.00%	66,506
	Day Mines, Inc.	Operator	12.50%	16,626
1963	American Smelting and Refining Co.	Operator	37.50%	54,054
	Callahan Mining Corp.	Owner	50.00%	72,073
	Day Mines, Inc.	Operator	12.50%	18,018
1964	American Smelting and Refining Co.	Operator	37.50%	51,080
	Callahan Mining Corp.	Owner	50.00%	68,107
	Day Mines, Inc.	Operator	12.50%	17,027
1965	American Smelting and Refining Co.	Operator	37.50%	55,371
	Callahan Mining Corp.	Owner	50.00%	73,828
	Day Mines, Inc.	Operator	12.50%	18,457
1966	American Smelting and Refining Co.	Operator	37.50%	58,279
	Callahan Mining Corp.	Owner	50.00%	77,706
	Day Mines, Inc.	Operator	12.50%	19,426
1967	American Smelting and Refining Co.	Operator	37.50%	27,834
	Callahan Mining Corp.	Owner	50.00%	37,113
	Day Mines, Inc.	Operator	12.50%	9,278
1968	American Smelting and Refining Co.	Operator	37.50%	34,748
	Callahan Mining Corp.	Owner	50.00%	46,331
	Day Mines, Inc.	Operator	12.50%	11,583
1969	American Smelting and Refining Co.	Operator	37.50%	50,971
	Callahan Mining Corp.	Owner	50.00%	67,962
	Day Mines, Inc.	Operator	12.50%	16,990
1970	American Smelting and Refining Co.	Operator	37.50%	57,847
	Callahan Mining Corp.	Owner	50.00%	77,129
	Day Mines, Inc.	Operator	12.50%	19,282
1971	American Smelting and Refining Co.	Operator	37.50%	62,361
	Callahan Mining Corp.	Owner	50.00%	83,148
	Day Mines, Inc.	Operator	12.50%	20,787
1972	American Smelting and Refining Co.	Operator	37.50%	71,327
	Callahan Mining Corp.	Owner	50.00%	95,103
	Day Mines, Inc.	Operator	12.50%	23,776
1973	American Smelting and Refining Co.	Operator	37.50%	75,342
	Callahan Mining Corp.	Owner	50.00%	100,456
	Day Mines, Inc.	Operator	12.50%	25,114
1974	American Smelting and Refining Co.	Operator	37.50%	66,336
	Callahan Mining Corp.	Owner	50.00%	88,448
	Day Mines, Inc.	Operator	12.50%	22,112
1975	American Smelting and Refining Co.	Operator	37.50%	66,893
	Callahan Mining Corp.	Owner	50.00%	89,191
	Day Mines, Inc.	Operator	12.50%	22,298
1976	American Smelting and Refining Co.	Operator	37.50%	68,352
	Callahan Mining Corp.	Owner	50.00%	91,136
	Day Mines, Inc.	Operator	12.50%	22,784
1977	American Smelting and Refining Co.	Operator	37.50%	66,639
	Callahan Mining Corp.	Owner	50.00%	88,852
	Day Mines, Inc.	Operator	12.50%	22,213
1978	American Smelting and Refining Co.	Operator	37.50%	66,060
	Callahan Mining Corp.	Owner	50.00%	88,080

1978	Day Mines, Inc.	Operator	12.50%	22,020
1979	American Smelting and Refining Co.	Operator	37.50%	66,352
	Callahan Mining Corp.	Owner	50.00%	88,470
	Day Mines, Inc.	Operator	12.50%	22,117
1980	American Smelting and Refining Co.	Operator	37.50%	71,382
	Callahan Mining Corp.	Owner	50.00%	95,176
	Day Mines, Inc.	Operator	12.50%	23,794
Total Short Tons of Mined Ore:				3,872,535

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Callahan Mining Corp.	1,649,727	42.60%
American Smelting and Refining Co.	1,562,390	40.35%
Day Mines, Inc.	520,797	13.45%
Callahan Zinc-Lead Co.	102,110	2.64%
Vulcan Silver and Lead Co.	37,511	0.97%

GALENA MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 5-6. Total short tons from this mine according to Mitchell and Bennett is 3,872,524, or 11 tons less than Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1922, Callahan Zinc-Lead Co., owner. Not confirmed, but by 1922 Galena Mining Company was consolidated with Callahan Zinc-Lead Co. according to Idaho Inspector of Mines, *Mining Industry of Idaho*, 1922.

1926-1938, Callahan Zinc-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho*, 1926.

1950-1980, see below.

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1950-1957, Vulcan Silver and Lead Co., owner; American Smelting and Refining Co., Day Mines, Inc., operators. In 1946, Callahan Zinc-Lead Co. deeded 2/3 interest in the Galena Mine to Vulcan Silver and Lead Co. (Moody's Investors Service, *Industrial Manual* [title varies], 1957, pp. 839-40). On January 15, 1947, Vulcan Silver-Lead Company leased its property to ASARCO for a term of 30 years, with option to continue another 30. After production of ore was started, Vulcan Silver-Lead Co. was to receive a royalty of 10 percent (Callahan Zinc-Lead Co. annual report, 1950).

HRA has not yet verified Jasberg's finding that Day Mines, Inc. had a 25% interest in ASARCO's lease in this period. See Jasberg, P-2, pp. 5-6. HRA's earliest annual report for Day Mines, Inc. (1959, p. 4) notes Day Mines, Inc.'s 25% interest.

1958, Callahan Mining Corp., owner. Callahan Zinc-Lead Co. and Vulcan Silver and Lead Co. merged into Callahan Mining Corp. See Moody's Investors Service, *Industrial Manual* (title varies), 1958, p. 1213.

1959-1980, Callahan Mining Corp., owner; American Smelting and Refining Co., Day Mines, Inc., operators. Callahan Mining Corp. had 50% interest (Callahan Mining Corp. annual report, 1959, p. 4; 1961, p. 4; 1962, p. 2; Moody's Investors

Service, *Industrial Manual* [title varies], 1966, p. 366; 1971, p. 1293; 1976, p. 1040-41; 1981, p. 1827).

Day Mines, Inc. still had 25% interest in ASARCO lease (Moody's Investors Service, *Industrial Manual*, 1957, pp. 839-40.

COMPANY-DEFENDANT RELATIONSHIPS

Callahan Mining Corp. is a Defendant and a subsidiary of Coeur d'Alene Mines Corp.

American Smelting and Refining Co. is a Defendant.

Day Mines, Inc. merged with Hecla Mining Co., a Defendant, in 1981.

Callahan Zinc-Lead Co. and Vulcan Silver and Lead Co. merged to form Callahan Mining Corp. in 1958.

Production from this mine by Callahan Mining Corp., Callahan Zinc-Lead Co., and Vulcan Silver and Lead Co. was included in Coeur d'Alene Mines Corp.'s share.

Draft Mine Production Report

Greenhill-Cleveland Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1903	Various Greenhill-Cleveland Mine Owners	Owner	100.00% 8,400
1912	Federal Mining & Smelting	Owner	50.00% 17,494
	Greenhill-Cleveland Mining Co.	Operator	50.00% 17,494
1913	Federal Mining & Smelting	Owner	50.00% 86,923
	Greenhill-Cleveland Mining Co.	Operator	50.00% 86,923
1914	Federal Mining & Smelting	Owner	50.00% 84,139
	Greenhill-Cleveland Mining Co.	Operator	50.00% 84,139
1915	Federal Mining & Smelting	Owner	50.00% 73,419
	Greenhill-Cleveland Mining Co.	Operator	50.00% 73,419
1916	Federal Mining & Smelting	Owner	50.00% 80,498
	Greenhill-Cleveland Mining Co.	Operator	50.00% 80,498
1917	Federal Mining & Smelting	Owner	50.00% 47,358
	Greenhill-Cleveland Mining Co.	Operator	50.00% 47,358
1918	Federal Mining & Smelting	Owner	50.00% 426
	Greenhill-Cleveland Mining Co.	Operator	50.00% 426
Total Short Tons of Mined Ore:			788,913

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Greenhill-Cleveland Mining Co.	390,257	49.47%
Federal Mining & Smelting	390,257	49.47%
Various Greenhill-Cleveland Mine Owners	8,400	1.06%

GREENHILL-CLEVELAND MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Jasberg's data, Sheet P-2, p. 12-13. Total short tons from this mine according to Mitchell and Bennett is 791,447 (p. 19), or 3,000 tons more than Jasberg's total. HRA is unable to account for the 3,000 ton difference between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1903, Various Greenhill-Cleveland Mine Owners. Sources note mine production but do not identify companies.

1912-1918, Federal Mining and Smelting Co., owner, and Greenhill Cleveland Mining Co., operator. See U.S. Geological Survey, *Mineral Resources of the United States* (1912, p. 734; 1913, p. 782; 1914, p. 631; 1915, p. 553; 1917, p. 486)

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1912-1918, HRA divided production equally between the owner and the operator because both companies are linked to the same Defendant.

COMPANY-DEFENDANT RELATIONSHIPS

Greenhill-Cleveland Mining Co. is linked to ASARCO, a Defendant.

Federal Mining and Smelting Co. merged with ASARCO in 1953 (Inspector of Mines, *Mining Industry in Idaho*, 1953, p. 141). ASARCO is a Defendant.

Production of Various Greenhill-Cleveland Mine Owners is included in the share of ASARCO as current owner and successor in interest.

Draft Mine Production Report

Helena-Frisco Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1897	Various Helena-Frisco Mine Owners	Owner 100.00%	66,363
1898	Various Helena-Frisco Mine Owners	Owner 100.00%	186,177
1899	Various Helena-Frisco Mine Owners	Owner 100.00%	401,468
1900	Various Helena-Frisco Mine Owners	Owner 100.00%	188,598
1901	Various Helena-Frisco Mine Owners	Owner 100.00%	40,728
1902	Various Helena-Frisco Mine Owners	Owner 100.00%	18,858
1903	Various Helena-Frisco Mine Owners	Owner 100.00%	90,600
1904	Various Helena-Frisco Mine Owners	Owner 100.00%	14,970
1905	Frisco Mining Co., Limited	Owner 100.00%	1,125
1906	Frisco Mining Co., Limited	Owner 100.00%	775
1907	Frisco Mining Co., Limited	Owner 100.00%	55,846
1908	Frisco Mining Co., Limited	Owner 100.00%	1,301
1909	Frisco Mining Co., Limited	Owner 100.00%	695
1910	Frisco Mining Co., Limited	Owner 100.00%	307
1911	Frisco Mining Co., Limited	Owner 100.00%	241
1912	Frisco Mining Co., Limited	Owner 100.00%	70
1913	Federal Mining & Smelting	Owner 100.00%	22
1915	Federal Mining & Smelting	Owner 100.00%	43,513
1916	Federal Mining & Smelting	Owner 100.00%	117,806
1917	Federal Mining & Smelting	Owner 100.00%	1,260
1918	Federal Mining & Smelting	Owner 100.00%	961
1919	Federal Mining & Smelting	Owner 100.00%	1,551
1920	Federal Mining & Smelting	Owner 100.00%	2,636
1921	Federal Mining & Smelting	Owner 100.00%	605
1922	Federal Mining & Smelting	Owner 100.00%	816
1923	Federal Mining & Smelting	Owner 100.00%	675
1924	Federal Mining & Smelting	Owner 100.00%	679
1925	Federal Mining & Smelting	Owner 100.00%	2,056
1926	Federal Mining & Smelting	Owner 100.00%	2,187
1927	Federal Mining & Smelting	Owner 100.00%	30,000
1928	Federal Mining & Smelting	Owner 100.00%	32,600
1929	Federal Mining & Smelting	Owner 100.00%	32,595
1930	Federal Mining & Smelting	Owner 100.00%	5,486
1931	Federal Mining & Smelting	Owner 100.00%	20,958
1932	Federal Mining & Smelting	Owner 100.00%	1,453
1933	Federal Mining & Smelting	Owner 100.00%	37,000
1934	Federal Mining & Smelting	Owner 100.00%	33,000
1935	Federal Mining & Smelting	Owner 100.00%	50,032
1936	Federal Mining & Smelting	Owner 100.00%	35,000
1937	Federal Mining & Smelting	Owner 100.00%	27,460
1938	Federal Mining & Smelting	Owner 100.00%	27,250
1939	Federal Mining & Smelting	Owner 100.00%	23,708
1940	Federal Mining & Smelting	Owner 100.00%	20,758
1941	Federal Mining & Smelting	Owner 100.00%	32,000

12/11/97

1942	Federal Mining & Smelting	Owner	100.00%	29,837
1943	Federal Mining & Smelting	Owner	100.00%	59,611
1944	Federal Mining & Smelting	Owner	100.00%	54,851
1945	Federal Mining & Smelting	Owner	100.00%	50,863
1946	Federal Mining & Smelting	Owner	100.00%	46,987
1947	Federal Mining & Smelting	Owner	100.00%	67,464
1948	Federal Mining & Smelting	Owner	100.00%	79,831
1949	Federal Mining & Smelting	Owner	100.00%	75,147
1950	Federal Mining & Smelting	Owner	100.00%	106,348
1951	Federal Mining & Smelting	Owner	100.00%	81,767
1952	Federal Mining & Smelting	Owner	100.00%	78,917
1953	American Smelting and Refining Co.	Owner	100.00%	96,656
1954	American Smelting and Refining Co.	Owner	100.00%	81,534
1955	American Smelting and Refining Co.	Owner	100.00%	52,414
1956	American Smelting and Refining Co.	Owner	100.00%	48,856
1957	American Smelting and Refining Co.	Owner	100.00%	5,942
1960	American Smelting and Refining Co.	Owner	100.00%	754
1966	American Smelting and Refining Co.	Owner	100.00%	1,386
1967	American Smelting and Refining Co.	Owner	100.00%	5,025

Total Short Tons of Mined Ore: 2,676,379

Total Short Tons of Mined Ore per Owner/Operator:		Percentage of This Mine's Ore:
Federal Mining & Smelting	1,315,690	49.16%
Various Helena-Frisco Mine Owners	1,007,762	37.65%
American Smelting and Refining Co.	292,567	10.93%
Frisco Mining Co., Limited	60,360	2.26%

HELENA-FRISCO MINE ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 10-12. Total short tons for this mine according to Mitchell and Bennett is identical to Jasberg's.

SOURCES OF OWNERS AND OPERATORS

1905-1912, Frisco Mining Co., Limited, owner. See U.S. Geological Survey, *Mineral Resources of the United States*, 1905.

1913-1952, Federal Mining & Smelting, owner. See U.S. Geological Survey, *Mineral Resources of the United States*, 1922, 1935, 1937, 1938. Note that these reports state small amounts of work done by lessees. Lessees were not identified nor listed above.

1953-1967, American Smelting and Refining Co. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1953, p. 141).

COMPANY-DEFENDANT RELATIONSHIPS

Federal Mining and Smelting is a Defendant and a subsidiary of ASARCO, another Defendant. Production from this mine by Federal was included in ASARCO's share.

American Smelting and Refining Co. is a Defendant.

Various Helena-Frisco Mine Owners (early period) production is included in ASARCO's share as current owner and successor in interest.

Frisco Mining Co., Limited's corporate relationship to Federal has not been investigated. Production from this mine by Frisco was included in ASARCO's share as successor in interest to the mine property.

Draft Mine Production Report

Last Chance Gulch Mine

Drainage: South Fork of CDA in the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1895	Various Last Chance Mine Owners	Owner	100.00% 118,556
1896	Various Last Chance Mine Owners	Owner	100.00% 118,557
1897	Various Last Chance Mine Owners	Owner	100.00% 118,556
1898	Various Last Chance Mine Owners	Owner	100.00% 118,557
1899	Various Last Chance Mine Owners	Owner	100.00% 118,556
1900	Various Last Chance Mine Owners	Owner	100.00% 118,557
1901	Various Last Chance Mine Owners	Owner	100.00% 118,556
1902	Various Last Chance Mine Owners	Owner	100.00% 118,557
1903	Federal Mining & Smelting	Owner	100.00% 118,556
1904	Federal Mining & Smelting	Owner	100.00% 118,557
1905	Federal Mining & Smelting	Owner	100.00% 118,556
1906	Federal Mining & Smelting	Owner	100.00% 118,557
1907	Federal Mining & Smelting	Owner	100.00% 118,556
1908	Federal Mining & Smelting	Owner	100.00% 118,557
1909	Federal Mining & Smelting	Owner	100.00% 118,556
1910	Federal Mining & Smelting	Owner	100.00% 118,557
1911	Federal Mining & Smelting	Owner	100.00% 118,556
1912	Federal Mining & Smelting	Owner	100.00% 118,557
1913	Federal Mining & Smelting	Owner	100.00% 118,556
1914	Federal Mining & Smelting	Owner	100.00% 118,557
1915	Federal Mining & Smelting	Owner	100.00% 118,556
1916	Federal Mining & Smelting	Owner	100.00% 118,557
1917	Federal Mining & Smelting	Owner	100.00% 118,556
1918	Federal Mining & Smelting	Owner	100.00% 118,557
Total Short Tons of Mined Ore:			2,845,356

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Federal Mining & Smelting	1,896,904	66.67%
Various Last Chance Mine Owners	948,452	33.33%

LAST CHANCE GULCH MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures represent Jasberg's total (Mines Grouped by Location Sheet II, p. 4) divided by the number of years of production provided by Mitchell and Bennett. Total short tons from this mine according to Mitchell and Bennett is 2,845,356 (p. 14).

SOURCES OF OWNERS AND OPERATORS

1895-1902, Various Last Chance Gulch Mine Owners. Sources note mine production but do not identify companies.

1903-1918, Federal Mining and Smelting Co., owner. See Inspector of Mines, *Mining Industry in Idaho* (1906, p. 140; 1908, p. 6; 1909, p. 100); U.S. Geological Survey, *Mineral Resources of the United States* (1917, p. 49); *Engineering and Mining Journal*, (November 27, 1909).

COMPANY-DEFENDANT RELATIONSHIPS

Federal Mining and Smelting Co. merged with ASARCO in 1953 (Inspector of Mines, *Mining Industry in Idaho*, 1953, p. 141). ASARCO is a Defendant.

Production of Various Last Chance Gulch Mine Owners is included in the share of ASARCO as current owner and successor in interest.

Draft Mine Production Report

Morning Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1885	Various Morning Mine Owners	Owner	115,765
1886	Various Morning Mine Owners	Owner	115,765
1887	Various Morning Mine Owners	Owner	115,765
1888	Various Morning Mine Owners	Owner	115,766
1889	Various Morning Mine Owners	Owner	115,766
1890	Various Morning Mine Owners	Owner	115,766
1891	Various Morning Mine Owners	Owner	115,766
1892	Various Morning Mine Owners	Owner	115,766
1893	Various Morning Mine Owners	Owner	115,766
1894	Various Morning Mine Owners	Owner	115,766
1895	Various Morning Mine Owners	Owner	115,766
1896	Various Morning Mine Owners	Owner	115,766
1897	Various Morning Mine Owners	Owner	115,766
1898	Larson/Greenough/Kilmer	Owner	115,766
1899	Larson/Greenough/Kilmer	Owner	115,766
1900	Larson/Greenough/Kilmer	Owner	115,766
1901	Larson/Greenough/Kilmer	Owner	179,170
1902	Larson/Greenough/Kilmer	Owner	209,852
1903	Larson/Greenough/Kilmer	Owner	236,410
1904	Larson/Greenough/Kilmer	Owner	235,775
1905	Federal Mining & Smelting	Owner	262,734
1906	Federal Mining & Smelting	Owner	338,720
1907	Federal Mining & Smelting	Owner	297,500
1908	Federal Mining & Smelting	Owner	189,975
1909	Federal Mining & Smelting	Owner	360,204
1910	Federal Mining & Smelting	Owner	335,816
1911	Federal Mining & Smelting	Owner	384,600
1912	Federal Mining & Smelting	Owner	402,600
1913	Federal Mining & Smelting	Owner	387,932
1914	Federal Mining & Smelting	Owner	202,400
1915	Federal Mining & Smelting	Owner	250,260
1916	Federal Mining & Smelting	Owner	444,932
1917	Federal Mining & Smelting	Owner	437,744
1918	Federal Mining & Smelting	Owner	250,299
1919	Federal Mining & Smelting	Owner	161,362
1920	Federal Mining & Smelting	Owner	292,835
1921	Federal Mining & Smelting	Owner	328,247
1922	Federal Mining & Smelting	Owner	295,886
1923	Federal Mining & Smelting	Owner	295,499
1924	Federal Mining & Smelting	Owner	339,717
1925	Federal Mining & Smelting	Owner	393,416
1926	Federal Mining & Smelting	Owner	413,896
1927	Federal Mining & Smelting	Owner	398,412
1928	Federal Mining & Smelting	Owner	397,927

12/11/97

1929	Federal Mining & Smelting	Owner	100.00%	386,210
1931	Federal Mining & Smelting	Owner	100.00%	232,485
1932	Federal Mining & Smelting	Owner	100.00%	102,407
1933	Federal Mining & Smelting	Owner	100.00%	197,257
1934	Federal Mining & Smelting	Owner	100.00%	220,037
1935	Federal Mining & Smelting	Owner	100.00%	298,568
1936	Federal Mining & Smelting	Owner	100.00%	314,772
1937	Federal Mining & Smelting	Owner	100.00%	351,742
1938	Federal Mining & Smelting	Owner	100.00%	262,950
1939	Federal Mining & Smelting	Owner	100.00%	377,723
1940	Federal Mining & Smelting	Owner	100.00%	336,960
1941	Federal Mining & Smelting	Owner	100.00%	271,137
1942	Federal Mining & Smelting	Owner	100.00%	236,902
1943	Federal Mining & Smelting	Owner	100.00%	234,667
1944	Federal Mining & Smelting	Owner	100.00%	276,769
1945	Federal Mining & Smelting	Owner	100.00%	250,311
1946	Federal Mining & Smelting	Owner	100.00%	145,497
1947	Federal Mining & Smelting	Owner	100.00%	108,729
1948	Federal Mining & Smelting	Owner	100.00%	77,061
1949	Federal Mining & Smelting	Owner	100.00%	87,853
1950	Federal Mining & Smelting	Owner	100.00%	108,189
1951	Federal Mining & Smelting	Owner	100.00%	88,817
1952	Federal Mining & Smelting	Owner	100.00%	83,104
1953	American Smelting and Refining Co.	Owner	100.00%	96,010
1954	American Smelting and Refining Co.	Owner	100.00%	49,468
1955	American Smelting and Refining Co.	Owner	100.00%	41,888
1956	American Smelting and Refining Co.	Owner	100.00%	45,995
1957	American Smelting and Refining Co.	Owner	100.00%	36,919
1958	American Smelting and Refining Co.	Owner	100.00%	10,864
1960	American Smelting and Refining Co.	Owner	100.00%	17
1961	Bunker Hill & S.M. & C. Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	120
1962	Bunker Hill & S.M. & C. Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	20,676
1963	Bunker Hill & S.M. & C. Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	53,551
1964	Bunker Hill & S.M. & C. Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	104,840
1965	Bunker Hill & S.M. & C. Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	128,089
1966	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	150,101
1967	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	121,534
1968	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	90,136
1969	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	87,166
1970	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	127,626
1971	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	163,178

1972	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	189,814
1973	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	201,174
1974	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	196,220
1975	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	194,770
1976	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	227,567
1977	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	226,727
1978	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	229,206
1979	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	211,582

Total Short Tons of Mined Ore: 18,631,758

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Federal Mining & Smelting	12,913,060	69.31%
Hecla Mining Co.	2,724,077	14.62%
Various Morning Mine Owners	1,504,955	8.08%
Larson/Greenough/Kilmer	1,208,505	6.49%
American Smelting and Refining Co.	281,161	1.51%
Bunker Hill & S.M. & C. Co.	0	0.00%

MORNING MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 1-3. Total short tons from this mine according to Mitchell and Bennett is 18,631,754, or 4 tons less than Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1885-1904, various owners and Larson/Greenough/Kilmer, owners. These names were taken from Jasberg and have not yet been verified.

1905-1952, Federal Mining and Smelting, owner. For acquisition in 1905, see Shoshone County Clerk and Recorder, Deed Book 25, p. 527. Also see U.S. Geological Survey, *Mineral Resources of the United States*, 1920, 1940, 1950.

1953-1960, American Smelting and Refining Co., owner. For acquisition in 1953, see Shoshone County Clerk and Recorder, Deed Book 133, p. 287. Also see ASARCO annual report (1953, p. 3); Idaho Inspector of Mines, *Mining Industry of Idaho* (1960, p. 61).

1961-1979, Bunker Hill Co. and Hecla Mining Co., operators. For lease of property by Hecla and Bunker Hill-Hecla operating agreement, see Idaho Inspector of Mines, *Mining Industry of Idaho* (1962, pp. 70, 79; 1965, pp. 70, 74; 1966, p. 79). Note that the operating agreement involved a 70:30 split between Bunker Hill and Hecla. Note also that ASARCO still owned the Morning Mine property through 1965 and that it was mined as the Star-Morning Unit. For more on the Star-Morning Unit, see Star Mine Report Annotations, this report. ASARCO sold the property to Hecla in February 1966 (Idaho Inspector of Mines, *Mining Industry of Idaho*, 1966, p. 79).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

For 1961-1979, HRA attributed 100% of production from this mine to Hecla and 0% to Bunker Hill, because Hecla is a Defendant and Bunker Hill is not a Defendant nor has a relationship to any Defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Federal Mining & Smelting is a Defendant and a subsidiary of ASARCO, another Defendant. Production from this mine by Federal was included in ASARCO's share.

Bunker Hill S. M. & C. Co. is not a Defendant, no longer exists, and was not a subsidiary of any Defendant. Its production from this mine was included with Hecla's share, because Hecla was a joint operator during the entire period of Bunker Hill's involvement in the mine.

Various Morning Mine Owners' production (early period) is included in Hecla's share as current owner and successor in interest.

Larson/Greenough/Kilmer is not a Defendant and no longer exists. Its production from this mine is included in Hecla's share as current owner and successor in interest.

Hecla Mining Co. is a Defendant.

American Smelting and Refining Co. is a Defendant.

Draft Mine Production Report

Page Mine

Drainage: South Fork of CDA in the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1926	Federal Mining & Smelting	Owner 100.00%	4,514
1927	Federal Mining & Smelting	Owner 100.00%	64,739
1928	Federal Mining & Smelting	Owner 100.00%	84,023
1929	Federal Mining & Smelting	Owner 100.00%	86,027
1930	Federal Mining & Smelting	Owner 100.00%	74,744
1931	Federal Mining & Smelting	Owner 100.00%	41,134
1932	Federal Mining & Smelting	Owner 100.00%	19,174
1933	Federal Mining & Smelting	Owner 100.00%	21,868
1934	Federal Mining & Smelting	Owner 100.00%	41,394
1935	Federal Mining & Smelting	Owner 100.00%	58,972
1936	Federal Mining & Smelting	Owner 100.00%	71,100
1937	Federal Mining & Smelting	Owner 100.00%	72,628
1938	Federal Mining & Smelting	Owner 100.00%	71,508
1939	Federal Mining & Smelting	Owner 100.00%	71,852
1940	Federal Mining & Smelting	Owner 100.00%	88,660
1941	Federal Mining & Smelting	Owner 100.00%	102,350
1942	Federal Mining & Smelting	Owner 100.00%	139,848
1943	Federal Mining & Smelting	Owner 100.00%	141,460
1944	Federal Mining & Smelting	Owner 100.00%	116,976
1945	Federal Mining & Smelting	Owner 100.00%	80,727
1946	Federal Mining & Smelting	Owner 100.00%	102,875
1947	Federal Mining & Smelting	Owner 100.00%	129,276
1948	Federal Mining & Smelting	Owner 100.00%	158,179
1949	Federal Mining & Smelting	Owner 100.00%	154,230
1950	Federal Mining & Smelting	Owner 100.00%	159,663
1951	Federal Mining & Smelting	Owner 100.00%	130,181
1952	Federal Mining & Smelting	Owner 100.00%	139,973
1953	American Smelting and Refining Co.	Owner 100.00%	153,718
1954	American Smelting and Refining Co.	Owner 100.00%	132,656
1955	American Smelting and Refining Co.	Owner 100.00%	76,831
1956	American Smelting and Refining Co.	Owner 100.00%	109,586
1957	American Smelting and Refining Co.	Owner 100.00%	128,751
1958	American Smelting and Refining Co.	Owner 100.00%	117,411
1959	American Smelting and Refining Co.	Owner 100.00%	111,405
1960	American Smelting and Refining Co.	Owner 100.00%	46,369
1961	American Smelting and Refining Co.	Owner 100.00%	117,592
1962	American Smelting and Refining Co.	Owner 100.00%	118,520
1963	American Smelting and Refining Co.	Owner 100.00%	126,041
1964	American Smelting and Refining Co.	Owner 100.00%	130,937
1965	American Smelting and Refining Co.	Owner 100.00%	130,082
1966	American Smelting and Refining Co.	Owner 100.00%	130,275
1967	American Smelting and Refining Co.	Owner 100.00%	70,808
1968	American Smelting and Refining Co.	Owner 100.00%	86,744
1969	American Smelting and Refining Co.	Owner 100.00%	91,464

12/11/97

Total Short Tons of Mined Ore:	4,307,265
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Federal Mining & Smelting	2,428,075	56.37%
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American Smelting and Refining Co.	1,879,190	43.63%
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12/11/97

PAGE MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 3-4. Total short tons from this mine according to Mitchell and Bennett is 4,307,335, or 70 tons more than Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1926-1952, Federal Mining & Smelting, owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1926-1927, 1931, 1934, 1937-1945).

1953-1969, American Smelting and Refining Co., owner. See ASARCO annual report (1953, p. 3); Idaho Inspector of Mines, *Mining Industry of Idaho*, 1966.

COMPANY-DEFENDANT RELATIONSHIPS

Federal Mining and Smelting Company is a Defendant and a subsidiary of ASARCO, another Defendant. Production from this mine by Federal is included in ASARCO's share.

American Smelting and Refining Co. is a Defendant.

Draft Mine Production Report

Standard-Mammoth Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1887	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1888	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1889	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1890	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1891	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1892	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1893	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1894	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1895	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1896	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1897	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1898	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1899	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,965
1900	Federal Mining & Smelting	Owner	100.00% 58,965
1901	Federal Mining & Smelting	Owner	100.00% 141,107
1902	Federal Mining & Smelting	Owner	100.00% 231,699
1903	Federal Mining & Smelting	Owner	100.00% 365,908
1904	Federal Mining & Smelting	Owner	100.00% 383,788
1905	Federal Mining & Smelting	Owner	100.00% 398,867
1906	Federal Mining & Smelting	Owner	100.00% 335,212
1907	Federal Mining & Smelting	Owner	100.00% 243,900
1908	Federal Mining & Smelting	Owner	100.00% 322,559
1909	Federal Mining & Smelting	Owner	100.00% 264,152
1910	Federal Mining & Smelting	Owner	100.00% 201,350
1911	Federal Mining & Smelting	Owner	100.00% 225,400
1912	Federal Mining & Smelting	Owner	50.00% 77,460
	Greenhill-Cleveland Mining Co.	Operator	50.00% 77,460
1913	Federal Mining & Smelting	Owner	50.00% 68
	Greenhill-Cleveland Mining Co.	Operator	50.00% 68
1914	Federal Mining & Smelting	Owner	50.00% 16
	Greenhill-Cleveland Mining Co.	Operator	50.00% 16
1915	Federal Mining & Smelting	Owner	50.00% 50
	Greenhill-Cleveland Mining Co.	Operator	50.00% 50
1916	Federal Mining & Smelting	Owner	100.00% 88
1917	Federal Mining & Smelting	Owner	100.00% 635
1918	Federal Mining & Smelting	Owner	100.00% 882
1919	Federal Mining & Smelting	Owner	100.00% 2,423
1920	Federal Mining & Smelting	Owner	100.00% 2,955
1921	Federal Mining & Smelting	Owner	100.00% 1,364
1922	Federal Mining & Smelting	Owner	100.00% 1,696
1923	Federal Mining & Smelting	Owner	100.00% 1,831
1924	Federal Mining & Smelting	Owner	100.00% 1,672
1925	Federal Mining & Smelting	Owner	100.00% 1,264
1926	Federal Mining & Smelting	Owner	100.00% 950

12/11/97

1927	Federal Mining & Smelting	Owner	100.00%	617
1928	Federal Mining & Smelting	Owner	100.00%	1,044
1929	Federal Mining & Smelting	Owner	100.00%	608
1930	Federal Mining & Smelting	Owner	100.00%	237
1931	Federal Mining & Smelting	Owner	100.00%	101
1932	Federal Mining & Smelting	Owner	100.00%	146
1933	Federal Mining & Smelting	Owner	100.00%	96
1934	Federal Mining & Smelting	Owner	100.00%	96
1935	Federal Mining & Smelting	Owner	100.00%	69
1936	Federal Mining & Smelting	Owner	100.00%	335
1937	Federal Mining & Smelting	Owner	100.00%	144
1938	Federal Mining & Smelting	Owner	100.00%	23
1939	Federal Mining & Smelting	Owner	100.00%	1,100
1940	Federal Mining & Smelting	Owner	100.00%	6,128
1941	Federal Mining & Smelting	Owner	100.00%	293
1942	Federal Mining & Smelting	Owner	100.00%	154
1943	Federal Mining & Smelting	Owner	100.00%	106
1944	Federal Mining & Smelting	Owner	100.00%	2
1945	Federal Mining & Smelting	Owner	100.00%	130
1946	Federal Mining & Smelting	Owner	100.00%	884
1947	Federal Mining & Smelting	Owner	100.00%	2,421
1948	Federal Mining & Smelting	Owner	100.00%	2,287
1949	Federal Mining & Smelting	Owner	100.00%	481
1950	Federal Mining & Smelting	Owner	100.00%	765
1951	Federal Mining & Smelting	Owner	100.00%	878
1952	Federal Mining & Smelting	Owner	100.00%	248
1965	ASARCO	Owner	100.00%	23

Total Short Tons of Mined Ore: 4,129,801

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Federal Mining & Smelting	3,285,653	79.56%
Various Standard-Mammoth Mine Owners	766,533	18.56%
Greenhill-Cleveland Mining Co.	77,593	1.88%
ASARCO	23	0.00%

STANDARD-MAMMOTH MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 6-9. Total short tons from this mine according to Mitchell and Bennett is 3,763,893, or 365,908 tons less than Jasberg's total. HRA is unable to account for the difference. Note that Jasberg and Mitchell and Bennett agree on the production period (1887-1965), and that Mitchell and Bennett cite USBM (Bureau of Mines) as the source of their data. Also note that Jasberg's data for 1887-1900 is based on a total production figure through 1900 averaged over 14 years.

SOURCES OF OWNERS AND OPERATORS

1900-1911, Federal Mining and Smelting, owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1900, p. 140), U.S. Geological Survey, *Mineral Resources of the United States*, 1907, 1908, 1910, 1911).

1912-1915, Federal Mining and Smelting, owner; Greenhill-Cleveland Mining Co., operator. See U.S. Geological Survey, *Mineral Resources of the United States* (1912, 1913, 1915).

1916-1952, Federal Mining and Smelting, owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1922-1926, 1930-1931, 1940); Federal Mining and Smelting Company annual report (1951-1952). Note: by 1920, Greenhill-Cleveland Mining Company was "controlled by Federal Mining and Smelting" (Idaho Inspector of Mines, *Mining Industry of Idaho* (1920, p. 99).

1965, ASARCO, owner. See Idaho Inspector of Mines, *Mining Industry of Idaho*, 1965.

COMPANY-DEFENDANT RELATIONSHIPS

Federal Mining and Smelting is a Defendant and a subsidiary of ASARCO, another Defendant. Production from this mine by Federal is included in ASARCO's share.

Various Standard-Mammoth Mine Owners (early period) production is included in ASARCO's share as current owner and successor in interest.

Greenhill-Cleveland Mining Co. is a Defendant and a subsidiary of ASARCO, another Defendant. Production from this mine by Greenhill-Cleveland Mining Co. is included in ASARCO's share.
ASARCO is a Defendant.

Draft Mine Production Report

Tiger-Poorman Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1884	Various Tiger-Poorman Owners	Owner	10,707
1885	Various Tiger-Poorman Owners	Owner	10,707
1886	Various Tiger-Poorman Owners	Owner	10,707
1887	Various Tiger-Poorman Owners	Owner	10,707
1888	Various Tiger-Poorman Owners	Owner	10,707
1889	Various Tiger-Poorman Owners	Owner	10,707
1890	Various Tiger-Poorman Owners	Owner	10,707
1891	Various Tiger-Poorman Owners	Owner	10,707
1892	Various Tiger-Poorman Owners	Owner	10,707
1893	Various Tiger-Poorman Owners	Owner	10,707
1894	Various Tiger-Poorman Owners	Owner	10,706
1895	Various Tiger-Poorman Owners	Owner	10,706
1896	Various Tiger-Poorman Owners	Owner	10,706
1897	Various Tiger-Poorman Owners	Owner	10,706
1898	Various Tiger-Poorman Owners	Owner	10,706
1899	Various Tiger-Poorman Owners	Owner	10,706
1900	Various Tiger-Poorman Owners	Owner	10,706
1901	Various Tiger-Poorman Owners	Owner	141,107
1902	Various Tiger-Poorman Owners	Owner	115,500
1903	Federal Mining & Smelting	Owner	110,958
1904	Federal Mining & Smelting	Owner	130,166
1905	Federal Mining & Smelting	Owner	132,051
1906	Federal Mining & Smelting	Owner	117,476
1907	Federal Mining & Smelting	Owner	51,800
1908	Federal Mining & Smelting	Owner	26,226
1909	Federal Mining & Smelting	Owner	112,099
1910	Federal Mining & Smelting	Owner	434
1912	Federal Mining & Smelting	Owner	118
1913	Federal Mining & Smelting	Owner	77
1914	Federal Mining & Smelting	Owner	100
1915	Federal Mining & Smelting	Owner	99
1916	Federal Mining & Smelting	Owner	58
1917	Federal Mining & Smelting	Owner	5,271
1918	Federal Mining & Smelting	Owner	533
1919	Federal Mining & Smelting	Owner	478
1941	Hecla Mining Co.	Owner	76
1943	Hecla Mining Co.	Owner	880
1951	Hecla Mining Co.	Owner	1,064
1952	Hecla Mining Co.	Owner	210

Total Short Tons of Mined Ore:	1,128,793
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Federal Mining & Smelting	687,944	60.95%
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Various Tiger-Poorman Owners	438,619	38.86%
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Hecla Mining Co.	2,230	0.20%
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TIGER-POORMAN MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Jasberg's data, Sheet P-1, pp. 19-20. Note that year by year production for 1884-1900 is based on a total through 1900 divided by the number of years. Total short tons from this mine according to Mitchell and Bennett matches Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1903-1919, Federal Mining and Smelting Co., owner. For acquisition, see *Engineering and Mining Journal* (November 27, 1909). Also see U.S. Geological Survey, *Mineral Resources of the United States* (1907-1910, 1915-1917).

1941-1952, Hecla Mining Co., owner. For acquisition (in 1920), see John Fahey, *Hecla: A Century of Mining*, p.50; Hecla Mining Co. annual report, 1920.

COMPANY-DEFENDANT RELATIONSHIPS

Federal Mining and Smelting Co. is a Defendant and a subsidiary of ASARCO, another Defendant. Production from this mine by Federal is included in ASARCO's share.

Hecla Mining Co. is a Defendant.

Various Tiger Poorman Owners (early period) production is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Wyoming Mine

Drainage: South Fork of CDA below the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Various Wyoming Mine Owners	Owner	100.00% 252
1917	Various Wyoming Mine Owners	Owner	100.00% 252
1918	Various Wyoming Mine Owners	Owner	100.00% 252
1919	Various Wyoming Mine Owners	Owner	100.00% 252
1920	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 252
1921	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 252
1922	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 252
1923	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 252
1924	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 252
1925	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 253
1926	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 253
Total Short Tons of Mined Ore:			2,774

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Wyoming Mining and Milling Co., Ltd.	1,766	63.66%
Various Wyoming Mine Owners	1,008	36.34%

WYOMING MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures represent Jasberg's total (Mines Grouped by Location Sheet 1, p. 10) divided by the number of years of production provided by Mitchell and Bennett. Total short tons from this mine according to Mitchell and Bennett is 2,774 (p. 13).

SOURCES OF OWNERS AND OPERATORS

1916-1919, Various Wyoming Mine Owners. Sources note mine production but do not identify companies. (N/A)

1920-1926, Wyoming Mining and Milling Co., Ltd., owner. See Inspector of Mines, *Mining Industry in Idaho* (1920, p. 117; 1922, p. 169; 1923, p. 182; 1924, p. 202; 1925, p. 226; 1926, p. 224)

COMPANY-DEFENDANT RELATIONSHIPS

Wyoming Mining and Milling Co., Ltd. is a subsidiary of Federal Mining and Smelting Co. (Inspector of Mines, *Mining Industry in Idaho*, 1920, p. 117). Federal Mining and Smelting Co. merged with ASARCO in 1953 (Inspector of Mines, *Mining Industry in Idaho*, 1953, p. 141). ASARCO is a Defendant.

Production of Various Wyoming Mine Owners is included in the share of ASARCO as current owner and successor in interest.

Draft Mine Production Report

Sunset Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1913	William Clark	Owner	100.00% 25
1922	Clark-Montana Realty Co.	Owner	100.00% 76
1923	Clark-Montana Realty Co.	Owner	100.00% 67
1925	Clark-Montana Realty Co.	Owner	100.00% 22
1940	Anaconda Co.	Owner	100.00% 5,603
1941	Anaconda Co.	Owner	100.00% 25,416
1942	Anaconda Co.	Owner	100.00% 20,200
1943	Anaconda Co.	Owner	100.00% 24,917
1944	Anaconda Co.	Owner	100.00% 22,547
1945	Anaconda Co.	Owner	100.00% 24,982
1946	Anaconda Co.	Owner	100.00% 27,656
1947	Anaconda Co.	Owner	100.00% 32,185
1948	Anaconda Co.	Owner	100.00% 26,704
1949	Anaconda Co.	Owner	50.00% 10,792
	Day Mines, Inc.	Operator	50.00% 10,792
1950	Anaconda Co.	Owner	50.00% 17,439
	Day Mines, Inc.	Operator	50.00% 17,439
1951	Anaconda Co.	Owner	34.00% 11,390
	Day Mines, Inc.	Operator	33.00% 11,055
	Zanetti Bros.	Operator	33.00% 11,055
1952	Anaconda Co.	Owner	33.00% 8,255
	Day Mines, Inc.	Operator	34.00% 8,505
	Zanetti Bros.	Operator	33.00% 8,255
1953	Anaconda Co.	Owner	33.00% 10,201
	Day Mines, Inc.	Operator	33.00% 10,201
	Zanetti Bros.	Operator	34.00% 10,510
1954	Anaconda Co.	Owner	34.00% 5,722
	Day Mines, Inc.	Operator	33.00% 5,553
	Zanetti Bros.	Operator	33.00% 5,553
1955	Anaconda Co.	Owner	33.00% 4,838
	Day Mines, Inc.	Operator	34.00% 4,984
	Zanetti Bros.	Operator	33.00% 4,838
1956	Anaconda Co.	Owner	33.00% 1,924
	Day Mines, Inc.	Operator	33.00% 1,924
	Zanetti Bros.	Operator	34.00% 1,982
1957	Anaconda Co.	Owner	34.00% 3,581
	Day Mines, Inc.	Operator	33.00% 3,476
	Zanetti Bros.	Operator	33.00% 3,476
1958	Anaconda Co.	Owner	33.00% 663
	Day Mines, Inc.	Operator	34.00% 683
	Zanetti Bros.	Operator	33.00% 663
1976	Anaconda Co.	Owner	100.00% 2,200

12/11/97

Total Short Tons of Mined Ore:	408,347
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Anaconda Co.	287,213	70.34%
Day Mines, Inc.	74,612	18.27%
Zanetti Bros.	46,332	11.35%
Clark-Montana Realty Co.	165	0.04%
William Clark	25	0.01%

12/11/97

SUNSET MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Jasberg's data, Sheet P-2. Total short tons from this mine according to Mitchell and Bennett is 355,032. HRA is unable to account for the 43,315-ton difference between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1913-1925, William Clark, Clark-Montana Realty Co., owner. See U.S. Geological Survey, Mineral Resources of the United States, (1914, p. 629); Inspector of Mines, Mining Industry of Idaho, (1922; 1923; 1924, p. 163 and p. 181; 1927, p. 195 and p. 216; 1928, p. 179).

1940-1976, Anaconda Co., owner. See Inspector of Mines, Mining Industry of Idaho, (1940; 1971, p. 78).

1949-1976, Day Mines, Inc., operator. See Inspector of Mines, Mining Industry of Idaho, (p. 198), which reports assignment of lease from E.G. Smith to Day Mines, Inc., effective 12-1-1948. Also see U.S. Geological Survey, Mineral Resources of the United States, (1951, p. 1494).

1951-1958, Zanetti Bros., operator. See Inspector of Mines, Mining Industry of Idaho, (1951, p. 70; 1952, p. 108; 1953, p. 143; 1958).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

For 1949-1950, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

For 1951-1958, HRA divided production 34:33:33 between the owner and two operators, because all three companies are either defendants or linked to defendants. Note that the sublease was alternately described as Zanetti Brothers, Korsage and Zanetti, and Korsage and Smith (in 1955). Note also that Mineral Resources of the United States for 1951 (p. 1494) reports that Day Mines, Inc. had a 70% interest with Anaconda Co., while Korsage and Zanetti operated under a sublease.

COMPANY-DEFENDANT RELATIONSHIPS

Anaconda Co. is a subsidiary of ARCO, a Defendant.
Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Zanetti Brothers is a Defendant. The relationship of the Korsage and Zanetti and
Korsage and Smith subleases to Zanetti Brothers is not clear.

Draft Defendant Company Report

ARCO - Atlantic Richfield Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Sunset	1940 — 1976	287,403
Douglas	1916 — 1918	3,988
Total Tons of Mined Ore:		291,391
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		0.32%

The above defendant company is successor in interest to the following owner / operators:

Anaconda Co.

Clark-Montana Realty Co.

William Clark

Draft Mine Production Report

Douglas Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Anaconda Co.	Operator	160
	Douglas Mining Co., Ltd.	Owner	160
1917	Anaconda Co.	Operator	3,616
	Douglas Mining Co., Ltd.	Owner	3,616
1918	Anaconda Co.	Operator	213
	Douglas Mining Co., Ltd.	Owner	213
1925	Douglas Mining Co., Ltd.	Owner	121
1926	Douglas Mining Co., Ltd.	Owner	3,458
1927	Douglas Mining Co., Ltd.	Owner	1,681
1929	Douglas Mining Co., Ltd.	Owner	318
1936	Douglas Mining Co., Ltd.	Owner	77
1942	Douglas Mining Co., Ltd.	Owner	7,500
	Small Leasing Co.	Operator	0
1943	Douglas Mining Co., Ltd.	Owner	12,789
	Small Leasing Co.	Operator	0
1944	Douglas Mining Co., Ltd.	Owner	23,608
	Small Leasing Co.	Operator	0
1945	Douglas Mining Co., Ltd.	Owner	19,116
	Small Leasing Co.	Operator	0
1946	Douglas Mining Co., Ltd.	Owner	15,112
	Small Leasing Co.	Operator	0
1947	Douglas Mining Co., Ltd.	Owner	15,536
	Small Leasing Co.	Operator	0
1948	Douglas Leasing Co.	Owner	0
	Douglas Mining Co., Ltd.	Owner	17,740
1949	Douglas Leasing Co.	Operator	0
	Douglas Mining Co., Ltd.	Owner	8,134
1951	Douglas Mining Co.	Owner	75
	Spokane-Idaho Mining Co.	Operator	75
1952	Douglas Mining Co.	Owner	5,130
	Spokane-Idaho Mining Co.	Operator	5,130
1953	Douglas Mining Co.	Owner	5,814
	Spokane-Idaho Mining Co.	Operator	5,814
1954	Douglas Mining Co.	Owner	4,151
	Spokane-Idaho Mining Co.	Operator	4,151
1955	Douglas Mining Co.	Owner	1,939
	Spokane-Idaho Mining Co.	Operator	1,939
1956	Douglas Mining Co.	Owner	24
1958	Douglas Mining Co.	Owner	259
1967	Douglas Mining Co.	Owner	408
1968	Douglas Mining Co.	Owner	572
1969	Douglas Mining Co.	Owner	178
1970	Douglas Mining Co.	Owner	153
1971	Douglas Mining Co.	Owner	161

12/11/97

1972

Douglas Mining Co.

Owner

100.00%

26

Total Short Tons of Mined Ore:169,162

Total Short Tons of Mined Ore per Owner/Operator:**Percentage of This Mine's Ore:**

Douglas Mining Co., Ltd.	129,178	76.36%
Douglas Mining Co.	18,889	11.17%
Spokane-Idaho Mining Co.	17,108	10.11%
Anaconda Co.	3,988	2.36%
Small Leasing Co.	0	0.00%
Douglas Leasing Co.	0	0.00%

12/11/97

DOUGLAS MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-3, pp. 11-12. Total short tons from this mine according to Mitchell and Bennett is 167,162 (p.10). HRA is unable to account for the 2,000-ton discrepancy between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1916-1918, Douglas Mining Co., Ltd., owner; Anaconda, operator. See U.S. Geological Survey, Mineral Resources of the United States (1916, p. 601; 1917, p. 492; 1918).

1919-1924, Douglas Mining Co., Ltd. No sources found.

1925-1949, Douglas Mining Co., Ltd. See Inspector of Mines, Mining Industry of Idaho.

1942-1947, Small Leasing Co. See lease dated Dec. 29, 1942 in database, PHRCA028-02287 and PHRCA028-02290. Duration of lease unclear.

1948-1949, Douglas Leasing Co. See Idaho Inspector of Mines, Mining Industry of Idaho (1948, p.192).

1951-1955, Spokane-Idaho Mining Co. See Inspector of Mines, Mining Industry of Idaho, which reports working agreement with Douglas Mining Co., Ltd. Note that Mineral Resources of the United States for 1953 reports that Douglas Mine was owned by Spokane-Idaho Mining Co. and operated by lessees. HRA assumes that this information is erroneous.

1951-1972, Douglas Mining Co., name change and owner. See Idaho Mine Inspector, Mining Industry of Idaho.

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1916-1918, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

1942-1949, HRA attributed all production to owner because operators could not be linked to defendants.

1951-1955, HRA divided production equally between the owner and the operator as both companies are linked to defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Anaconda Co. is a subsidiary of ARCO, a Defendant.

Spokane-Idaho Mining Co. was successor in interest to Constitution Mining and Milling Co. It appears that the Constitution Mining Company, incorporated in 1967, is a successor in interest to the Spokane-Idaho Mining Co. The Constitution Mining Company is a Defendant.

The Douglas Mining Company is a Defendant.

Blackhawk Mining & Development Co.

This Defendant is a subsidiary of ASARCO. All mined ore production by this company is included in ASARCO's share.

Burlington Northern

This Defendant was a transporter of mined ore in the Coeur d'Alene Basin. It does not have a share in the *production* of mined ore.

Draft Defendant Company Report

Callahan Consolidated Mines, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Rex	1942 — 1946	68,490
Total Tons of Mined Ore:		68,490
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		0.08%

The above defendant company is successor in interest to the following owner / operators:

Callahan Consolidated Mines Co.

Draft Mine Production Report

Rex Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1905	Rex Mining Co.	Owner	100.00% 3,408
1906	Rex Mining Co.	Owner	100.00% 7,255
1908	Rex Mining Co.	Owner	100.00% 2,984
1910	Rex Mining Co.	Owner	100.00% 5,440
1911	Rex Mining Co.	Owner	100.00% 8,204
1912	Rex Mining Co.	Owner	100.00% 34
1913	Rex Mining Co.	Owner	100.00% 11,868
1916	Rex Consolidated Mining Co.	Owner	100.00% 5,971
1917	Rex Consolidated Mining Co.	Owner	100.00% 32,116
1918	Rex Consolidated Mining Co.	Owner	100.00% 1,211
1919	Rex Consolidated Mining Co.	Owner	100.00% 106
1920	Rex Consolidated Mining Co.	Owner	100.00% 203
1921	Rex Consolidated Mining Co.	Owner	100.00% 53
1922	Rex Consolidated Mining Co.	Owner	100.00% 16
1923	Rex Consolidated Mining Co.	Owner	100.00% 29
1925	Rex Consolidated Mining Co.	Owner	100.00% 237
1926	Delaware Mines Corp.	Owner	100.00% 52
1927	Delaware Mines Corp.	Owner	100.00% 299
1928	Delaware Mines Corp.	Owner	100.00% 390
1929	Delaware Mines Corp.	Owner	100.00% 225
1930	Delaware Mines Corp.	Owner	100.00% 98
1942	Callahan Consolidated Mines Co.	Operator	50.00% 65
	Delaware Mines Corp.	Owner	50.00% 65
1943	Callahan Consolidated Mines Co.	Operator	50.00% 5,910
	Delaware Mines Corp.	Owner	50.00% 5,910
1944	Callahan Consolidated Mines Co.	Owner	100.00% 21,439
1945	Callahan Consolidated Mines Co.	Owner	100.00% 25,308
1946	Callahan Consolidated Mines Co.	Owner	100.00% 15,768
1949	Day Mines, Inc.	Owner	100.00% 34,350
Total Short Tons of Mined Ore:			189,014

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Callahan Consolidated Mines Co.	68,490	36.24%
Rex Consolidated Mining Co.	39,942	21.13%
Rex Mining Co.	39,193	20.74%
Day Mines, Inc.	34,350	18.17%
Delaware Mines Corp.	7,039	3.72%

REX MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. P-1, pp. 31-32. Total figure of short tons from this mine according to Mitchell and Bennett is 154,551 (p. 11). HRA is unable to account for the difference between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1905-1913, Rex Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1905, p. 241; 1906, p. 264; 1908, p. 433; 1910, p. 467; 1911, p. 600; 1912, p. 735; 1913 p. 785).

1916-1925, Rex Consolidated Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1915, p. 556; 1916, p. 598; 1918); Inspector of Mines, *Mining Industry of Idaho* (1920, p. 110; 1922, p. 158; 1923, pp. 172-173; 1924, p. 190).

1926-1930, Delaware Mines Corp., owner. See Inspector of Mines, *Mining Industry of Idaho* (1926, p. 186; 1927, p. 199; 1928, p. 192; 1929, p. 215; 1930, p. 221); Mines Information Bureau, *The Mines Handbook* (1931, p. 958).

1942-1943, Delaware Mines Corp., owner, and Callahan Consolidated Mines Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1940, pp. 194, 198; 1941, p. 210); U. S. Geological Survey's *Mineral Resources of the United States* (1943, p. 378).

1944-1946, Callahan Consolidated Mines Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1944, p. 162; 1945, p. 202; 1946, p. 201).

1949, Day Mines, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* (1948, p. 189; 1951, pp. 73, 76).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1942-1943, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Callahan Consolidated Mines Co. is a defendant; see Complaint.

Production of Rex Consolidated Mining Co., Rex Mining Co., and Delaware Mines, Inc. is included in the share of Hecla Mining Co. as current owner and successor in interest.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Callahan Mining Corporation

This Defendant is a subsidiary of Coeur d'Alene Mines Corporation. All mined ore production by this company is included in Coeur d'Alene Mines Corporation's share.

Draft Defendant Company Report

Coeur d'Alene Mines Corporation

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Interstate/Callahan	1913 -- 1919	1,169,452
Argentine	1921 -- 1923	401
Coeur Unit	1969 -- 1980	180,792
Galena	1950 -- 1957	1,789,348
Mineral Point	1938 -- 1952	440,779
Rainbow	1957 -- 1958	12,591
Total Tons of Mined Ore:		3,593,363
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		3.96%

The above defendant company is successor in interest to the following owner / operators:

Argenta Mining Co., Ltd.
Callahan Mining Corp.
Callahan Zinc-Lead Co.
Coeur d'Alene Mines Corp.
Consolidated Callahan Interstate Mining Co.
Mineral Point Mining Co.
Rainbow Mining and Milling Co.
Vulcan Silver and Lead Co.

Draft Mine Production Report

Argentine Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1921	Argenta Mining Co., Ltd.	Owner	100.00% 134
1922	Argenta Mining Co., Ltd.	Owner	100.00% 134
1923	Argenta Mining Co., Ltd.	Owner	100.00% 133
Total Short Tons of Mined Ore:			401

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Argenta Mining Co., Ltd.	401	100.00%
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ARGENTINE MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett. Total short tons of mined ore and year-by-year production figures are from Jasberg's data, Sheet "Mines Grouped by Location," p. 7. Total figure of short tons from this mine according to Mitchell and Bennett is 401. (p. 15).

SOURCES OF OWNERS AND OPERATORS

1921-1923, Argenta Mining Co., Ltd., owner. See Inspector of Mines, *Mining Industry of Idaho* (1922, p. 127; 1923, p. 138).

Post-1923, Callahan Mining Corp., owner. The Metsker map identifies the Argentine Mine as Callahan Mining Corp.'s property

COMPANY-DEFENDANT RELATIONSHIPS

The Callahan Mining Corp. merged with Coeur d'Alene Mines Corp., a defendant.

Production of Argenta Mining Co., Ltd., is included in the share of Coeur d'Alene Mines Corp. as current owner and successor in interest.

Draft Mine Production Report

Coeur Unit Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1969	American Smelting and Refining Co.	Operator	83.34%
	Callahan Mining Corp.	Operator	8.33%
	Day Mines, Inc.	Operator	8.33%
1974	American Smelting and Refining Co.	Operator	83.34%
	Callahan Mining Corp.	Operator	8.33%
	Day Mines, Inc.	Operator	8.33%
1976	American Smelting and Refining Co.	Operator	83.34%
	Callahan Mining Corp.	Operator	8.33%
	Day Mines, Inc.	Operator	8.33%
1977	American Smelting and Refining Co.	Operator	83.34%
	Callahan Mining Corp.	Operator	8.33%
	Day Mines, Inc.	Operator	8.33%
1978	American Smelting and Refining Co.	Operator	83.34%
	Callahan Mining Corp.	Operator	8.33%
	Day Mines, Inc.	Operator	8.33%
1979	American Smelting and Refining Co.	Operator	50.00%
	Callahan Mining Corp.	Operator	5.00%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	5.00%
1980	American Smelting and Refining Co.	Operator	50.00%
	Callahan Mining Corp.	Operator	5.00%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	5.00%
Total Short Tons of Mined Ore:			755,620

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
American Smelting and Refining Co.	522,587 69.16%
Coeur d'Alene Mines Corp.	128,550 17.01%
Day Mines, Inc.	52,241 6.91%
Callahan Mining Corp.	52,241 6.91%

COEUR UNIT MINE ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 13-14. Total short tons from this mine according to Mitchell and Bennett is 755,618, or two tons less than Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

See below.

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1969, American Smelting and Refining Co., Callahan Mining Corp., and Day Mines, Inc., operators. Property operated by ASARCO under a 60%-40% working agreement of 1964 (Coeur d'Alene Mines Corp. annual report 1969/1970, see "Coeur Project"). Callahan had 1/12th interest in profit-sharing lease held by ASARCO. After capital recovery the 1/12th interest would equal 5% of the project. (Callahan Mining Corp. annual report, 1969, p.7) Day Mines participated by a 1/12 interest in ASARCO's lease on the Coeur property (Day Mines, Inc. annual report, 1969, p.5)

1974-1978, American Smelting and Refining Co., Callahan Mining Corp., and Day Mines, Inc., operators. See reference to amendments to Coeur agreement of 8-31-1964 in Coeur d'Alene Mines Corp. annual report, 1974, "Litigation"). For Callahan contribution of 8.33% to project, see Callahan Mining Corp. annual report, 1974, p.4. After investment was reimbursed, Callahan would have 5% interest in mine (1974 Callahan CAR , p.4). For reference to resolution of litigation, see Day Mines Inc. annual report, 1974, p. 5.

Coeur d'Alene Mines CAR's, 1975: after ASARCO's reimbursement for development's expenditures, ores "will be divided 40% to Coeur d'Alene Mines Corp. and 60% to American Smelting and Refining Co." (see "Note 1"); 1976: after ASARCO's reimbursement, Coeur d'Alene Mines Corp. "will have a 40% operating interest in the mine" (see "Litigation").

For 1976, see Callahan Mining Corp. annual report, 1976, p.3: Callahan entitled to 8.33% of mine profits until investment recovery; after recovery Callahan would retain a 5% interest.

For 1976, also see Day Mines, Inc. annual report, 1976, p. 3: DMI had 8.33% ownership in lease.

For 1977, see Callahan Mining Corp. annual report, 1977, p. 4: Callahan entitled to 8.33% of mine profits until investment recovery; after recovery Callahan will retain a 5% interest.

See also Day Mines, Inc. annual report, 1977, p. 3: Day Mines owned 8.33% interest in ASARCO's Coeur lease.

For 1978, see Callahan Mining Corp. annual report, 1978, pp. 3, 7: Callahan entitled to 8.33% of mine profits. When investment was fully recovered, expected during the first half of 1979, Callahan would receive 5% of profits.

For 1978, also see Day Mines, Inc. annual report, 1978, p. 4: DMI had an 8.33% participating interest in ASARCO's lease.

1979-1980, Coeur d'Alene Mines Corp., owner, and American Smelting and Refining Co., Callahan Mining Corp., and Day Mines, Inc., operators. "Following payback of the Company's investment in Coeur during the first quarter of 1979, Callahan now receives 5 percent of mine profits..." (Callahan Mining Corp. annual report, 1979, p. 3).

For 1980, see Callahan Mining Corp. annual report, 1980, p. 8: Callahan received 5% of profits.

Also see Day Mines, Inc. annual report, 1980, p. 8: Day Mines's participating interest in ASARCO's lease represented 5% of Coeur net profits.

Also see ASARCO annual report, 1981, p. 18: ASARCO operated site under lease and joint venture arrangements. ASARCO had a 50% interest in Coeur in operating expenses and profits or losses.

COMPANY-DEFENDANT RELATIONSHIPS

American Smelting and Refining Co. is a Defendant.

Coeur d'Alene Mines Corp. is a Defendant.

Day Mines, Inc. merged with Hecla, a Defendant, in 1981.

Callahan Mining Corp., a Defendant, is also a subsidiary of Coeur d'Alene Mines Corp. Production from this mine by Callahan Mining Corp. is included in Coeur d'Alene Mines Corp.'s share.

Draft Mine Production Report

Galena Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1922	Callahan Zinc-Lead Co.	Owner	91
1926	Callahan Zinc-Lead Co.	Owner	8,600
1927	Callahan Zinc-Lead Co.	Owner	54,698
1928	Callahan Zinc-Lead Co.	Owner	3,429
1929	Callahan Zinc-Lead Co.	Owner	21,501
1930	Callahan Zinc-Lead Co.	Owner	11,654
1931	Callahan Zinc-Lead Co.	Owner	663
1935	Callahan Zinc-Lead Co.	Owner	95
1937	Callahan Zinc-Lead Co.	Owner	1,300
1938	Callahan Zinc-Lead Co.	Owner	79
1950	American Smelting and Refining Co.	Operator	1,089
	Day Mines, Inc.	Operator	363
	Vulcan Silver and Lead Co.	Owner	161
1951	American Smelting and Refining Co.	Operator	696
	Day Mines, Inc.	Operator	232
	Vulcan Silver and Lead Co.	Owner	103
1952	American Smelting and Refining Co.	Operator	8,570
	Day Mines, Inc.	Operator	2,857
	Vulcan Silver and Lead Co.	Owner	1,270
1953	American Smelting and Refining Co.	Operator	29,340
	Day Mines, Inc.	Operator	9,780
	Vulcan Silver and Lead Co.	Owner	4,347
1954	American Smelting and Refining Co.	Operator	32,915
	Day Mines, Inc.	Operator	10,972
	Vulcan Silver and Lead Co.	Owner	4,876
1955	American Smelting and Refining Co.	Operator	38,130
	Day Mines, Inc.	Operator	12,710
	Vulcan Silver and Lead Co.	Owner	5,649
1956	American Smelting and Refining Co.	Operator	59,349
	Day Mines, Inc.	Operator	19,783
	Vulcan Silver and Lead Co.	Owner	8,793
1957	American Smelting and Refining Co.	Operator	83,112
	Day Mines, Inc.	Operator	27,704
	Vulcan Silver and Lead Co.	Owner	12,313
1958	American Smelting and Refining Co.	Operator	80,880
	Callahan Mining Corp.	Owner	11,982
	Day Mines, Inc.	Operator	26,960
1959	American Smelting and Refining Co.	Operator	44,170
	Callahan Mining Corp.	Owner	58,893
	Day Mines, Inc.	Operator	14,723
1960	American Smelting and Refining Co.	Operator	18,261
	Callahan Mining Corp.	Owner	24,348
	Day Mines, Inc.	Operator	6,087
1961	American Smelting and Refining Co.	Operator	44,769

12/10/97

Page 1 of 3

1961	Callahan Mining Corp.	Owner	50.00%	59,693
	Day Mines, Inc.	Operator	12.50%	14,923
1962	American Smelting and Refining Co.	Operator	37.50%	49,879
	Callahan Mining Corp.	Owner	50.00%	66,506
	Day Mines, Inc.	Operator	12.50%	16,626
1963	American Smelting and Refining Co.	Operator	37.50%	54,054
	Callahan Mining Corp.	Owner	50.00%	72,073
	Day Mines, Inc.	Operator	12.50%	18,018
1964	American Smelting and Refining Co.	Operator	37.50%	51,080
	Callahan Mining Corp.	Owner	50.00%	68,107
	Day Mines, Inc.	Operator	12.50%	17,027
1965	American Smelting and Refining Co.	Operator	37.50%	55,371
	Callahan Mining Corp.	Owner	50.00%	73,828
	Day Mines, Inc.	Operator	12.50%	18,457
1966	American Smelting and Refining Co.	Operator	37.50%	58,279
	Callahan Mining Corp.	Owner	50.00%	77,706
	Day Mines, Inc.	Operator	12.50%	19,426
1967	American Smelting and Refining Co.	Operator	37.50%	27,834
	Callahan Mining Corp.	Owner	50.00%	37,113
	Day Mines, Inc.	Operator	12.50%	9,278
1968	American Smelting and Refining Co.	Operator	37.50%	34,748
	Callahan Mining Corp.	Owner	50.00%	46,331
	Day Mines, Inc.	Operator	12.50%	11,583
1969	American Smelting and Refining Co.	Operator	37.50%	50,971
	Callahan Mining Corp.	Owner	50.00%	67,962
	Day Mines, Inc.	Operator	12.50%	16,990
1970	American Smelting and Refining Co.	Operator	37.50%	57,847
	Callahan Mining Corp.	Owner	50.00%	77,129
	Day Mines, Inc.	Operator	12.50%	19,282
1971	American Smelting and Refining Co.	Operator	37.50%	62,361
	Callahan Mining Corp.	Owner	50.00%	83,148
	Day Mines, Inc.	Operator	12.50%	20,787
1972	American Smelting and Refining Co.	Operator	37.50%	71,327
	Callahan Mining Corp.	Owner	50.00%	95,103
	Day Mines, Inc.	Operator	12.50%	23,776
1973	American Smelting and Refining Co.	Operator	37.50%	75,342
	Callahan Mining Corp.	Owner	50.00%	100,456
	Day Mines, Inc.	Operator	12.50%	25,114
1974	American Smelting and Refining Co.	Operator	37.50%	66,336
	Callahan Mining Corp.	Owner	50.00%	88,448
	Day Mines, Inc.	Operator	12.50%	22,112
1975	American Smelting and Refining Co.	Operator	37.50%	66,893
	Callahan Mining Corp.	Owner	50.00%	89,191
	Day Mines, Inc.	Operator	12.50%	22,298
1976	American Smelting and Refining Co.	Operator	37.50%	68,352
	Callahan Mining Corp.	Owner	50.00%	91,136
	Day Mines, Inc.	Operator	12.50%	22,784
1977	American Smelting and Refining Co.	Operator	37.50%	66,639
	Callahan Mining Corp.	Owner	50.00%	88,852
	Day Mines, Inc.	Operator	12.50%	22,213
1978	American Smelting and Refining Co.	Operator	37.50%	66,060
	Callahan Mining Corp.	Owner	50.00%	88,080

1978	Day Mines, Inc.	Operator	12.50%	22,020
1979	American Smelting and Refining Co.	Operator	37.50%	66,352
	Callahan Mining Corp.	Owner	50.00%	88,470
	Day Mines, Inc.	Operator	12.50%	22,117
1980	American Smelting and Refining Co.	Operator	37.50%	71,382
	Callahan Mining Corp.	Owner	50.00%	95,176
	Day Mines, Inc.	Operator	12.50%	23,794

Total Short Tons of Mined Ore:			3,872,535
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Callahan Mining Corp.	1,649,727	42.60%
American Smelting and Refining Co.	1,562,390	40.35%
Day Mines, Inc.	520,797	13.45%
Callahan Zinc-Lead Co.	102,110	2.64%
Vulcan Silver and Lead Co.	37,511	0.97%

GALENA MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 5-6. Total short tons from this mine according to Mitchell and Bennett is 3,872,524, or 11 tons less than Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1922, Callahan Zinc-Lead Co., owner. Not confirmed, but by 1922 Galena Mining Company was consolidated with Callahan Zinc-Lead Co. according to Idaho Inspector of Mines, *Mining Industry of Idaho*, 1922.

1926-1938, Callahan Zinc-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho*, 1926.

1950-1980, see below.

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1950-1957, Vulcan Silver and Lead Co., owner; American Smelting and Refining Co., Day Mines, Inc., operators. In 1946, Callahan Zinc-Lead Co. deeded 2/3 interest in the Galena Mine to Vulcan Silver and Lead Co. (Moody's Investors Service, *Industrial Manual* [title varies], 1957, pp. 839-40). On January 15, 1947, Vulcan Silver-Lead Company leased its property to ASARCO for a term of 30 years, with option to continue another 30. After production of ore was started, Vulcan Silver-Lead Co. was to receive a royalty of 10 percent (Callahan Zinc-Lead Co. annual report, 1950).

HRA has not yet verified Jasberg's finding that Day Mines, Inc. had a 25% interest in ASARCO's lease in this period. See Jasberg, P-2, pp. 5-6. HRA's earliest annual report for Day Mines, Inc. (1959, p. 4) notes Day Mines, Inc.'s 25% interest.

1958, Callahan Mining Corp., owner. Callahan Zinc-Lead Co. and Vulcan Silver and Lead Co. merged into Callahan Mining Corp. See Moody's Investors Service, *Industrial Manual* (title varies), 1958, p. 1213.

1959-1980, Callahan Mining Corp., owner; American Smelting and Refining Co., Day Mines, Inc., operators. Callahan Mining Corp. had 50% interest (Callahan Mining Corp. annual report, 1959, p. 4; 1961, p. 4; 1962, p. 2; Moody's Investors

Service, *Industrial Manual* [title varies], 1966, p. 366; 1971, p. 1293; 1976, p. 1040-41; 1981, p. 1827).

Day Mines, Inc. still had 25% interest in ASARCO lease (Moody's Investors Service, *Industrial Manual*, 1957, pp. 839-40.

COMPANY-DEFENDANT RELATIONSHIPS

Callahan Mining Corp. is a Defendant and a subsidiary of Coeur d'Alene Mines Corp.

American Smelting and Refining Co. is a Defendant.

Day Mines, Inc. merged with Hecla Mining Co., a Defendant, in 1981.

Callahan Zinc-Lead Co. and Vulcan Silver and Lead Co. merged to form Callahan Mining Corp. in 1958.

Production from this mine by Callahan Mining Corp., Callahan Zinc-Lead Co., and Vulcan Silver and Lead Co. was included in Coeur d'Alene Mines Corp.'s share.

Draft Mine Production Report

Interstate/Callahan Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1906	Various Interstate-Callahan Mine Owners	Owner	100.00% 116
1907	Various Interstate-Callahan Mine Owners	Owner	100.00% 391
1908	Various Interstate-Callahan Mine Owners	Owner	100.00% 223
1909	Various Interstate-Callahan Mine Owners	Owner	100.00% 297
1910	Various Interstate-Callahan Mine Owners	Owner	100.00% 195
1913	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 43,663
1914	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 88,664
1915	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 109,451
1916	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 139,004
1917	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 144,661
1918	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 157,456
1919	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 54,135
1920	Callahan Zinc-Lead Co.	Owner	100.00% 129,833
1922	Callahan Zinc-Lead Co.	Owner	100.00% 20,516
1923	Callahan Zinc-Lead Co.	Owner	100.00% 114,179
1924	Callahan Zinc-Lead Co.	Owner	100.00% 24
1937	Callahan Zinc-Lead Co.	Owner	100.00% 16,950
1938	Callahan Zinc-Lead Co.	Owner	100.00% 3,900
1939	Callahan Zinc-Lead Co.	Owner	100.00% 3,200
1940	Callahan Zinc-Lead Co.	Owner	100.00% 17,616
	Interstate Lease	Operator	0.00% 0
1941	Callahan Zinc-Lead Co.	Owner	100.00% 46,000
1942	Callahan Zinc-Lead Co.	Owner	100.00% 46,870
1943	Callahan Zinc-Lead Co.	Owner	100.00% 25,100
1944	Callahan Zinc-Lead Co.	Owner	100.00% 8,230
1945	Monitor Mining Co.	Owner	100.00% 10,070
1946	Monitor Mining Co.	Owner	100.00% 3,859
1948	Day Mines, Inc.	Owner	100.00% 21,634
1949	Day Mines, Inc.	Owner	100.00% 16,672
1950	Day Mines, Inc.	Owner	50.00% 3,893
	Zanetti Bros.	Operator	50.00% 3,893
1951	Day Mines, Inc.	Owner	100.00% 7,185
1961	Day Mines, Inc.	Owner	100.00% 4,049
1962	Day Mines, Inc.	Owner	100.00% 56,000
1971	Day Mines, Inc.	Owner	100.00% 18,751
1972	Day Mines, Inc.	Owner	100.00% 20,259
1973	Day Mines, Inc.	Owner	100.00% 20,674
1974	Day Mines, Inc.	Owner	100.00% 22,118
1975	Day Mines, Inc.	Owner	100.00% 19,533
1976	Day Mines, Inc.	Owner	100.00% 21,027
1977	Day Mines, Inc.	Owner	100.00% 3,328

Total Short Tons of Mined Ore:	1,423,619
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Consolidated Callahan Interstate Mining Co.	737,034	51.77%
Callahan Zinc-Lead Co.	432,418	30.37%
Day Mines, Inc.	235,123	16.52%
Monitor Mining Co.	13,929	0.98%
Zanetti Bros.	3,893	0.27%
Various Interstate-Callahan Mine Owners	1,222	0.09%
Interstate Lease	0	0.00%

INTERSTATE/CALLAHAN MINE ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. M-12, pp. 1-3. Total figure of short tons from this mine according to Mitchell and Bennett is 1,423,619 (p. 11).

SOURCES OF OWNERS AND OPERATORS

1913-1919, Consolidated Callahan Interstate Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1912, p. 731; 1913, p. 780; 1916, p. 593; 1919, p. 575).

1920-1924, Callahan Zinc-Lead, owner. See Inspector of Mines, *Mining Industry of Idaho* (1920, p. 92; 1922, pp. 132-133; 1923, p. 146; 1924, p. 161). Also see Moody's Investors Service, *Industrial Manual* (title varies) (1957, p. 839).

1937-1944, Callahan Zinc-Lead, owner. See Inspector of Mines, *Mining Industry of Idaho* (1937, p. 227; 1938, p. 205; 1939, p. 258; 1940, p. 194; 1942, p. 136; 1944, pp. 162-163).

1945-1946, Monitor Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1945, p. 373) and Inspector of Mines, *Mining Industry of Idaho* (1946, p. 201).

1948-1949, Day Mines, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* (1948, pp. 192, 205; 1950, p. 205; 1951, p. 76).

1950, Day Mines, Inc., owner, and Zanetti Bros., operator. In this year the operator worked the mine in addition to dumps. See U. S. Geological Survey, *Mineral Resources of the United States* (1950, p. 1497).

1951, 1961-1962, 1971-1977, Day Mines, Inc., owner. U. S. Geological Survey, *Mineral Resources of the United States* (1951, p. 1497) and Inspector of Mines, *Mining Industry of Idaho* (1961, pp. 111-112; 1971, p. 80).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1940, HRA attributed all production to the owner because the operator could not be linked to defendants.

1950, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Consolidated Callahan Interstate Mining Co. was renamed Callahan Zinc-Lead Co. in 1920. When the company merged with Vulcan Silver-Lead Corp. in 1958, its name changed to Callahan Mining Corp. See Callahan Mining Corp., Annual Report (1958, p. 3). Callahan Mining Corp. is a subsidiary of Coeur d'Alene Mines Corp.

Coeur d'Alene Mines Corp. and Zanetti Bros. are defendants; see Complaint.

Monitor Mining Co. merged with Day Mines in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Various Interstate-Callahan Mine Owners (early period) production is included in the share of Hecla Mining Co. as current owner and successor in interest.

Draft Mine Production Report

Mineral Point Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1919	Mineral Point Mining Co.	Owner 100.00%	26
1920	Mineral Point Mining Co.	Owner 100.00%	21
1921	Mineral Point Mining Co.	Owner 100.00%	5
1922	Mineral Point Mining Co.	Owner 100.00%	8
1938	Coeur d'Alene Mines Corp.	Owner 100.00%	1,220
1939	Coeur d'Alene Mines Corp.	Owner 100.00%	17,502
1940	Coeur d'Alene Mines Corp.	Owner 100.00%	51,812
1941	Coeur d'Alene Mines Corp.	Owner 100.00%	87,672
1942	Coeur d'Alene Mines Corp.	Owner 100.00%	122,301
1943	Coeur d'Alene Mines Corp.	Owner 100.00%	78,753
1944	Coeur d'Alene Mines Corp.	Owner 100.00%	25,337
1945	Coeur d'Alene Mines Corp.	Owner 100.00%	12,455
1946	Coeur d'Alene Mines Corp.	Owner 100.00%	8,193
1947	Coeur d'Alene Mines Corp.	Owner 100.00%	18,198
1948	Coeur d'Alene Mines Corp.	Owner 100.00%	5,257
1949	Coeur d'Alene Mines Corp.	Owner 100.00%	1,562
1950	Coeur d'Alene Mines Corp.	Owner 100.00%	2,020
1951	Coeur d'Alene Mines Corp.	Owner 100.00%	7,682
1952	Coeur d'Alene Mines Corp.	Owner 100.00%	755
Total Short Tons of Mined Ore:			440,779

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Coeur d'Alene Mines Corp.	440,719 99.99%
Mineral Point Mining Co.	60 0.01%

MINERAL POINT MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. P-11, pp. 1-2. Total figure of short tons from this mine according to Mitchell and Bennett is 440,779 (p. 15).

SOURCES OF OWNERS AND OPERATORS

1919-1922, Mineral Point Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1920, p. 105; 1921, p. 105; 1922, p. 152).

1938-1952, Coeur d'Alene Mines Corp., owner. See Inspector of Mines, *Mining Industry of Idaho* (1937, p. 243) and U. S. Geological Survey, *Mineral Resources of the United States* (1946, p. 1444; 1949, p. 1478; 1951, p. 1494; 1952, p. 303).

COMPANY-DEFENDANT RELATIONSHIPS

Coeur d'Alene Mines Corp. is a defendant; see Complaint.

Production of Mineral Point Mining Co. is included in the share of Coeur d'Alene Mines Corp. as current owner and successor in interest.

Draft Mine Production Report

Rainbow Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1957	Polaris Mining Co.	Operator	8,798
	Rainbow Mining and Milling Co.	Owner	8,798
1958	Hecla Mining Co.	Operator	3,793
	Rainbow Mining and Milling Co.	Owner	3,793
Total Short Tons of Mined Ore:			25,182

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

Rainbow Mining and Milling Co.	12,591	50.00%
Polaris Mining Co.	8,798	34.94%
Hecla Mining Co.	3,793	15.06%

RAINBOW MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. P-11, pp. 2-3. Total figure of short tons from this mine according to Mitchell and Bennett is 7,582 (p. 15). Mitchell and Bennett reported 1958 as the only year of production.

SOURCES OF OWNERS AND OPERATORS

1957, Rainbow Mining and Milling Co., owner, and Polaris Mining Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1957, p. 129).

1958, Rainbow Mining and Milling Co., owner, and Hecla Mining Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1958, p. 91).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1957-1958, HRA divided production equally between the owner and operators because the companies are linked to two different defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Rainbow Mining and Milling Co. merged with Coeur d'Alene Mines Corp. as the surviving company. See Inspector of Mines, *Mining Industry of Idaho* (1968, p. 125).

Coeur d'Alene Mines Corp. is a defendant.

Polaris Mining Co. merged with Hecla Mining Co. in 1958. See Inspector of Mines, *Mining Industry of Idaho* (1958, p. 90).

Hecla Mining Co. is a defendant.

Draft Defendant Company Report

Constitution Mining Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Constitution	1968 — 1968	667,321
Douglas	1951 — 1955	17,108
Total Tons of Mined Ore:		684,429
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		0.75%

The above defendant company is successor in interest to the following owner / operators:

Constitution Mining and Milling Co.

Constitution Mining Co.

Spokane-Idaho Mining Co.

Various Constitution Mine Owners

Draft Mine Production Report

Constitution Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1915	Various Constitution Mine Owners	Owner	100.00% 360
1916	Various Constitution Mine Owners	Owner	100.00% 1,037
1917	Various Constitution Mine Owners	Owner	100.00% 5,904
1918	Various Constitution Mine Owners	Owner	100.00% 207
1924	Constitution Mining and Milling Co.	Owner	100.00% 12,068
1925	Constitution Mining and Milling Co.	Owner	100.00% 31,319
1926	Constitution Mining and Milling Co.	Owner	100.00% 49,554
1927	Constitution Mining and Milling Co.	Owner	100.00% 33,159
1928	Constitution Mining and Milling Co.	Owner	100.00% 4,286
1929	Constitution Mining and Milling Co.	Owner	100.00% 12,386
1930	Constitution Mining and Milling Co.	Owner	100.00% 23,970
1941	Spokane-Idaho Mining Co.	Owner	100.00% 6,973
1942	Spokane-Idaho Mining Co.	Owner	100.00% 20,307
1943	Spokane-Idaho Mining Co.	Owner	100.00% 21,498
1944	Spokane-Idaho Mining Co.	Owner	100.00% 22,146
1945	Spokane-Idaho Mining Co.	Owner	100.00% 26,151
1946	Spokane-Idaho Mining Co.	Owner	100.00% 36,715
1947	Spokane-Idaho Mining Co.	Owner	100.00% 38,468
1948	Spokane-Idaho Mining Co.	Owner	100.00% 54,917
1949	Spokane-Idaho Mining Co.	Owner	100.00% 50,623
1950	Spokane-Idaho Mining Co.	Owner	100.00% 61,402
1951	Spokane-Idaho Mining Co.	Owner	100.00% 62,692
1952	Spokane-Idaho Mining Co.	Owner	100.00% 48,806
1953	Spokane-Idaho Mining Co.	Owner	100.00% 21,661
1954	Spokane-Idaho Mining Co.	Owner	100.00% 13,264
1955	Spokane-Idaho Mining Co.	Owner	100.00% 6,933
1956	Spokane-Idaho Mining Co.	Owner	100.00% 225
1957	Spokane-Idaho Mining Co.	Owner	100.00% 150
1968	Constitution Mining Co.	Owner	100.00% 140
Total Short Tons of Mined Ore:			667,321

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Spokane-Idaho Mining Co.	492,931 73.87%
Constitution Mining and Milling Co.	166,742 24.99%
Various Constitution Mine Owners	7,508 1.13%
Constitution Mining Co.	140 0.02%

CONSTITUTION MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. P-9, p. 1-2. Total figure of short tons from this mine according to Mitchell and Bennett is 667,326 (p. 10).

SOURCES OF OWNERS AND OPERATORS

1915-1918, Various Constitution Mine Owners, owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1915, p. 560; 1916, p. 601; 1917, p. 492; 1918). Sources indicate mine production but do not identify companies.

1924-1930, Constitution Mining and Milling Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1924, pp. 164-165; 1925, p. 189; 1926, p. 186; 1927, p. 197; 1928, p. 190; 1929, pp. 213-214; 1930, pp. 218-219).

1941-1957, Spokane-Idaho Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1941, p. 231; 1942, p. 151-152; 1943, p. 214; 1944, p. 181; 1945, p. 221; 1946, p. 219; 1947, p. 203; 1948, p. 212; 1949, p. 205; 1950, p. 228; 1951, pp. 98-99; 1952, pp. 138-139; 1953, p. 171; 1954, p. 146; 1955, p. 141; 1958, p. 95; 1959, p. 89). Also see U. S. Geological Survey, *Mineral Resources of the United States* (1941, pp. 356-357; 1942, p. 386; 1943, p. 379; 1944, p. 363; 1945, p. 379; 1946, p. 1448; 1947; 1948, p. 1510; 1949, p. 1482; 1950, p. 1500; 1951, p. 1496; 1952, p. 305; 1953, p. 329; 1954, p. 378; 1955, p. 365; 1956, p. 388).

1968, Constitution Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1967, p. 113; 1971, p. 80).

COMPANY-DEFENDANT RELATIONSHIPS

Production of Spokane-Idaho Mining Co., Constitution Mining and Milling Co., and Various Constitution Mine Owners is included in the share of Constitution Mining Co. as current owner and successor in interest.

Constitution Mining Co. is a defendant.

Draft Mine Production Report

Douglas Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Anaconda Co.	Operator	50.00% 160
	Douglas Mining Co., Ltd.	Owner	50.00% 160
1917	Anaconda Co.	Operator	50.00% 3,616
	Douglas Mining Co., Ltd.	Owner	50.00% 3,616
1918	Anaconda Co.	Operator	50.00% 213
	Douglas Mining Co., Ltd.	Owner	50.00% 213
1925	Douglas Mining Co., Ltd.	Owner	100.00% 121
1926	Douglas Mining Co., Ltd.	Owner	100.00% 3,458
1927	Douglas Mining Co., Ltd.	Owner	100.00% 1,681
1929	Douglas Mining Co., Ltd.	Owner	100.00% 318
1936	Douglas Mining Co., Ltd.	Owner	100.00% 77
1942	Douglas Mining Co., Ltd.	Owner	100.00% 7,500
	Small Leasing Co.	Operator	0.00% 0
1943	Douglas Mining Co., Ltd.	Owner	100.00% 12,789
	Small Leasing Co.	Operator	0.00% 0
1944	Douglas Mining Co., Ltd.	Owner	100.00% 23,608
	Small Leasing Co.	Operator	0.00% 0
1945	Douglas Mining Co., Ltd.	Owner	100.00% 19,116
	Small Leasing Co.	Operator	0.00% 0
1946	Douglas Mining Co., Ltd.	Owner	100.00% 15,112
	Small Leasing Co.	Operator	0.00% 0
1947	Douglas Mining Co., Ltd.	Owner	100.00% 15,536
	Small Leasing Co.	Operator	0.00% 0
1948	Douglas Leasing Co.	Owner	0.00% 0
	Douglas Mining Co., Ltd.	Owner	100.00% 17,740
1949	Douglas Leasing Co.	Operator	0.00% 0
	Douglas Mining Co., Ltd.	Owner	100.00% 8,134
1951	Douglas Mining Co.	Owner	50.00% 75
	Spokane-Idaho Mining Co.	Operator	50.00% 75
1952	Douglas Mining Co.	Owner	50.00% 5,130
	Spokane-Idaho Mining Co.	Operator	50.00% 5,130
1953	Douglas Mining Co.	Owner	50.00% 5,814
	Spokane-Idaho Mining Co.	Operator	50.00% 5,814
1954	Douglas Mining Co.	Owner	50.00% 4,151
	Spokane-Idaho Mining Co.	Operator	50.00% 4,151
1955	Douglas Mining Co.	Owner	50.00% 1,939
	Spokane-Idaho Mining Co.	Operator	50.00% 1,939
1956	Douglas Mining Co.	Owner	100.00% 24
1958	Douglas Mining Co.	Owner	100.00% 259
1967	Douglas Mining Co.	Owner	100.00% 408
1968	Douglas Mining Co.	Owner	100.00% 572
1969	Douglas Mining Co.	Owner	100.00% 178
1970	Douglas Mining Co.	Owner	100.00% 153
1971	Douglas Mining Co.	Owner	100.00% 161

12/10/97

1972

Douglas Mining Co.

Owner

100.00%

26

Total Short Tons of Mined Ore:169,162

Total Short Tons of Mined Ore per Owner/Operator:**Percentage of This Mine's Ore:**

Douglas Mining Co., Ltd.	129,178	76.36%
Douglas Mining Co.	18,889	11.17%
Spokane-Idaho Mining Co.	17,108	10.11%
Anaconda Co.	3,988	2.36%
Small Leasing Co.	0	0.00%
Douglas Leasing Co.	0	0.00%

DOUGLAS MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-3, pp. 11-12. Total short tons from this mine according to Mitchell and Bennett is 167,162 (p.10). HRA is unable to account for the 2,000-ton discrepancy between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1916-1918, Douglas Mining Co., Ltd., owner; Anaconda, operator. See U.S. Geological Survey, Mineral Resources of the United States (1916, p. 601; 1917, p. 492; 1918).

1919-1924, Douglas Mining Co., Ltd. No sources found.

1925-1949, Douglas Mining Co., Ltd. See Inspector of Mines, Mining Industry of Idaho.

1942-1947, Small Leasing Co. See lease dated Dec. 29, 1942 in database, PHRCA028-02287 and PHRCA028-02290. Duration of lease unclear.

1948-1949, Douglas Leasing Co. See Idaho Inspector of Mines, Mining Industry of Idaho (1948, p.192).

1951-1955, Spokane-Idaho Mining Co. See Inspector of Mines, Mining Industry of Idaho, which reports working agreement with Douglas Mining Co., Ltd. Note that Mineral Resources of the United States for 1953 reports that Douglas Mine was owned by Spokane-Idaho Mining Co. and operated by lessees. HRA assumes that this information is erroneous.

1951-1972, Douglas Mining Co., name change and owner. See Idaho Mine Inspector, Mining Industry of Idaho.

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1916-1918, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

1942-1949, HRA attributed all production to owner because operators could not be linked to defendants.

1951-1955, HRA divided production equally between the owner and the operator as both companies are linked to defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Anaconda Co. is a subsidiary of ARCO, a Defendant.

Spokane-Idaho Mining Co. was successor in interest to Constitution Mining and Milling Co. It appears that the Constitution Mining Company, incorporated in 1967, is a successor in interest to the Spokane-Idaho Mining Co. The Constitution Mining Company is a Defendant.

The Douglas Mining Company is a Defendant.

Draft Defendant Company Report

Douglas Mining Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
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Douglas	1916 — 1949	148,067
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Total Tons of Mined Ore:	148,067
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Total Tons Mined in the CDA Basin from 1884 - 1980:	90,702,653
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Percent of CDA Basin Total:	0.16%
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The above defendant company is successor in interest to the following owner / operators:

Douglas Mining Co.

Douglas Mining Co., Ltd.

Draft Mine Production Report

Douglas Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Anaconda Co.	Operator	160
	Douglas Mining Co., Ltd.	Owner	160
1917	Anaconda Co.	Operator	3,616
	Douglas Mining Co., Ltd.	Owner	3,616
1918	Anaconda Co.	Operator	213
	Douglas Mining Co., Ltd.	Owner	213
1925	Douglas Mining Co., Ltd.	Owner	121
1926	Douglas Mining Co., Ltd.	Owner	3,458
1927	Douglas Mining Co., Ltd.	Owner	1,681
1929	Douglas Mining Co., Ltd.	Owner	318
1936	Douglas Mining Co., Ltd.	Owner	77
1942	Douglas Mining Co., Ltd.	Owner	7,500
	Small Leasing Co.	Operator	0
1943	Douglas Mining Co., Ltd.	Owner	12,789
	Small Leasing Co.	Operator	0
1944	Douglas Mining Co., Ltd.	Owner	23,608
	Small Leasing Co.	Operator	0
1945	Douglas Mining Co., Ltd.	Owner	19,116
	Small Leasing Co.	Operator	0
1946	Douglas Mining Co., Ltd.	Owner	15,112
	Small Leasing Co.	Operator	0
1947	Douglas Mining Co., Ltd.	Owner	15,536
	Small Leasing Co.	Operator	0
1948	Douglas Leasing Co.	Owner	0
	Douglas Mining Co., Ltd.	Owner	17,740
1949	Douglas Leasing Co.	Operator	0
	Douglas Mining Co., Ltd.	Owner	8,134
1951	Douglas Mining Co.	Owner	75
	Spokane-Idaho Mining Co.	Operator	75
1952	Douglas Mining Co.	Owner	5,130
	Spokane-Idaho Mining Co.	Operator	5,130
1953	Douglas Mining Co.	Owner	5,814
	Spokane-Idaho Mining Co.	Operator	5,814
1954	Douglas Mining Co.	Owner	4,151
	Spokane-Idaho Mining Co.	Operator	4,151
1955	Douglas Mining Co.	Owner	1,939
	Spokane-Idaho Mining Co.	Operator	1,939
1956	Douglas Mining Co.	Owner	24
1958	Douglas Mining Co.	Owner	259
1967	Douglas Mining Co.	Owner	408
1968	Douglas Mining Co.	Owner	572
1969	Douglas Mining Co.	Owner	178
1970	Douglas Mining Co.	Owner	153
1971	Douglas Mining Co.	Owner	161

12/10/97

Page 1 of 2

1972 Douglas Mining Co.

Owner 100.00%

26

Total Short Tons of Mined Ore: 169,162

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Douglas Mining Co., Ltd.	129,178	76.36%
Douglas Mining Co.	18,889	11.17%
Spokane-Idaho Mining Co.	17,108	10.11%
Anaconda Co.	3,988	2.36%
Small Leasing Co.	0	0.00%
Douglas Leasing Co.	0	0.00%

DOUGLAS MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-3, pp. 11-12. Total short tons from this mine according to Mitchell and Bennett is 167,162 (p.10). HRA is unable to account for the 2,000-ton discrepancy between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1916-1918, Douglas Mining Co., Ltd., owner; Anaconda, operator. See U.S. Geological Survey, Mineral Resources of the United States (1916, p. 601; 1917, p. 492; 1918).

1919-1924, Douglas Mining Co., Ltd. No sources found.

1925-1949, Douglas Mining Co., Ltd. See Inspector of Mines, Mining Industry of Idaho.

1942-1947, Small Leasing Co. See lease dated Dec. 29, 1942 in database, PHRCA028-02287 and PHRCA028-02290. Duration of lease unclear.

1948-1949, Douglas Leasing Co. See Idaho Inspector of Mines, Mining Industry of Idaho (1948, p.192).

1951-1955, Spokane-Idaho Mining Co. See Inspector of Mines, Mining Industry of Idaho, which reports working agreement with Douglas Mining Co., Ltd. Note that Mineral Resources of the United States for 1953 reports that Douglas Mine was owned by Spokane-Idaho Mining Co. and operated by lessees. HRA assumes that this information is erroneous.

1951-1972, Douglas Mining Co., name change and owner. See Idaho Mine Inspector, Mining Industry of Idaho.

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1916-1918, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

1942-1949, HRA attributed all production to owner because operators could not be linked to defendants.

1951-1955, HRA divided production equally between the owner and the operator as both companies are linked to defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Anaconda Co. is a subsidiary of ARCO, a Defendant.

Spokane-Idaho Mining Co. was successor in interest to Constitution Mining and Milling Co. It appears that the Constitution Mining Company, incorporated in 1967, is a successor in interest to the Spokane-Idaho Mining Co. The Constitution Mining Company is a Defendant.

The Douglas Mining Company is a Defendant.

Federal Mining and Smelting Co., Inc.

This Defendant is a subsidiary of ASARCO. All mined ore production by this company is included in ASARCO's share.

Golconda Lead Mines, Inc.

This company became Golconda Mining Corporation, which was succeeded by Group R Co., Inc. All mined ore production by this company is included in Group R's share.

Golconda Mining Corp.

This company was succeeded by Group R Company, Inc. All mined ore production by this company is included in Group R's share.

Government Gulch Mining Company, Inc.

This company is a subsidiary of ASARCO. Its land holdings in the Coeur d'Alene Basin may be significant. It does not have a share in the *production* of mined ore.

Greenhill Cleveland Mining Co.

This company is a subsidiary of ASARCO. All mined ore production by this company is included in ASARCO's share.

Draft Defendant Company Report

Group R Company, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Golconda	1926 — 1926	345,719
Total Tons of Mined Ore:		345,719
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		0.38%

The above defendant company is successor in interest to the following owner / operators:

Golconda Lead Mines

Golconda Mining Corp.

Various Golconda Mine Owners

Draft Mine Production Report

Golconda Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1926	Various Golconda Mine Owners	Owner	100.00% 8,232
1927	Golconda Lead Mines	Owner	100.00% 8,232
1928	Golconda Lead Mines	Owner	100.00% 8,232
1929	Golconda Lead Mines	Owner	100.00% 8,232
1930	Golconda Lead Mines	Owner	100.00% 8,232
1931	Golconda Lead Mines	Owner	100.00% 8,232
1932	Golconda Lead Mines	Owner	100.00% 8,232
1933	Golconda Lead Mines	Owner	100.00% 8,232
1934	Golconda Lead Mines	Owner	100.00% 8,232
1935	Golconda Lead Mines	Owner	100.00% 8,232
1936	Golconda Lead Mines	Owner	100.00% 8,232
1937	Golconda Lead Mines	Owner	100.00% 8,232
1938	Golconda Lead Mines	Owner	100.00% 8,232
1939	Golconda Lead Mines	Owner	100.00% 8,232
1940	Golconda Lead Mines	Owner	100.00% 8,232
1941	Golconda Lead Mines	Owner	100.00% 8,232
1942	Golconda Lead Mines	Owner	100.00% 8,232
1943	Golconda Lead Mines	Owner	100.00% 8,231
1944	Golconda Lead Mines	Owner	100.00% 8,231
1945	Golconda Lead Mines	Owner	100.00% 8,231
1946	Golconda Lead Mines	Owner	100.00% 8,231
1947	Golconda Lead Mines	Owner	100.00% 8,231
1948	Golconda Lead Mines	Owner	100.00% 8,231
1949	Golconda Lead Mines	Owner	100.00% 8,231
1950	Golconda Lead Mines	Owner	100.00% 8,231
1951	Golconda Lead Mines	Owner	100.00% 8,231
1952	Golconda Lead Mines	Owner	100.00% 8,231
1953	Golconda Lead Mines	Owner	100.00% 8,231
1954	Golconda Lead Mines	Owner	100.00% 8,231
1955	Golconda Lead Mines	Owner	100.00% 8,231
1956	Golconda Lead Mines	Owner	100.00% 8,231
1957	Golconda Lead Mines	Owner	100.00% 8,231
1958	Golconda Lead Mines	Owner	100.00% 8,231
1959	Golconda Lead Mines	Owner	100.00% 8,231
1960	Golconda Lead Mines	Owner	100.00% 8,231
1961	Golconda Lead Mines	Owner	100.00% 8,231
1962	Golconda Mining Corp.	Owner	100.00% 8,231
1963	Golconda Mining Corp.	Owner	100.00% 8,231
1964	Golconda Mining Corp.	Owner	100.00% 8,231
1965	Golconda Mining Corp.	Owner	100.00% 8,231
1966	Golconda Mining Corp.	Owner	100.00% 8,231
1967	Golconda Mining Corp.	Owner	100.00% 8,231

Total Short Tons of Mined Ore:	345,719
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Golconda Lead Mines	288,101	83.33%
Golconda Mining Corp.	49,386	14.29%
Various Golconda Mine Owners	8,232	2.38%

GOLCONDA MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett. Total short tons of mined ore are from Jasberg's data, Sheet "Mines Grouped by Location," p. 1. Total figure of short tons from this mine according to Mitchell and Bennett is 339,228. (p. 19). HRA is unable to account for the difference between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1926, Various Golconda Mine Owners. Sources note mine production but do not identify companies.

1927-1961, Golconda Lead Mines, owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1927, p. 205; 1930, p. 229; 1931, p. 221; 1936, p. 248; 1940, p. 201; 1944, p. 167; 1946, p. 207; 1951, p. 81; 1954, p. 130; 1957, p. 124).

1962-1967, Golconda Mining Corp., owner. See Inspector of Mines, *Mining Industry of Idaho* (1962, p. 77; 1965, p. 73; 1966, pp. 92-93; 1968, p. 115).

COMPANY-DEFENDANT RELATIONSHIPS

Golconda Lead Mines and Golconda Mining Corp. are subsidiaries of Group R, a defendant. See Complaint.

Various Golconda Mine Owners (early period) production is included in the share of Group R as current owner and successor in interest.

Draft Defendant Company Report

Hecla Mining Company, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Black Bear	1927 — 1973	19,727
Fairview & Wide West	1947 — 1950	57,186
Hecla	1901 — 1969	7,686,505
Hercules	1947 — 1965	3,519,512
Hummingbird	1926 — 1931	18,740
Marsh	1908 — 1908	128,805
Sherman	1927 — 1946	661,071
Tiger-Poorman	1941 — 1952	440,849
Stanley	1906 — 1925	1,459
Ambergis/Gulf/Honolulu	1919 — 1928	16,786
California	1902 — 1925	49,079
Dayrock	1924 — 1928	1,276,488
Interstate/Callahan	1948 — 1977	250,274
Rex	1916 — 1925	120,524
Success	1905 — 1952	823,395
Sunset	1949 — 1958	74,612
Tamarack-Custer	1913 — 1946	2,819,472
Amazon	1947 — 1977	1,287,907
Blue Grouse	1952 — 1969	2,747
Carlisle	1947 — 1947	78,963
Idora	1915 — 1942	5,707
Mountain Goat	1955 — 1970	344,674
Nepsic	1943 — 1946	10,475
Ray Jefferson	1916 — 1916	130
Silver Tip	1943 — 1946	30,255
Tough Nut	1943 — 1943	1,448
Tuscumbia	1947 — 1956	12,632
Alice	1925 — 1926	2,907
Atlas	1940 — 1954	2,718
Gold Hunter	1925 — 1954	3,248,771
Lucky Friday	1942 — 1963	3,998,754
Morning	1885 — 1897	5,437,537
National	1914 — 1922	170,008
Snowstorm	1901 — 1915	826,580
Star	1925 — 1980	7,272,725
Coeur Unit	1969 — 1980	52,241
Galena	1950 — 1980	520,797
Polaris	1916 — 1936	320,783
Rainbow	1958 — 1958	12,591
Silver Summit	1948 — 1952	798,765
Sunshine	1958 — 1980	1,383,234
Western Union	1920 — 1939	11,173

Total Tons of Mined Ore:	43,799,005
Total Tons Mined in the CDA Basin from 1884 - 1980:	90,702,653
Percent of CDA Basin Total:	48.29%

The above defendant company is successor in interest to the following owner / operators:

Amazon-Manhattan Group
 Amazon-Manhattan Mining Co.
 Ambergis Consolidated Mining Co.
 Ambergis Mines Co.
 Black Bear Mines Co.
 Day Mines, Inc.
 Dayrock Mining Co.
 Delaware Mines Corp.
 Gold Hunter Mines, Inc.
 Gold Hunter Mining and Smelting Co.
 Guelph Mining and Milling Co., Ltd.
 Hecla Mining Co.
 Hercules Mining Co.
 Honolulu Mining Co., Ltd.
 Hummingbird Mining Co.
 Idora Hill Mining Co., Ltd.
 Idora Mining Co., Ltd.
 Larson/Greenough/Kilmer
 Lucky Friday Mining Co.
 Lucky Friday Silver-Lead Mines Co.
 Marsh Mines Consolidated Co.
 Marsh Mining Co.
 Monitor Mining Co.
 National Copper Mining Co., Ltd.
 Oregon-Idaho Mining and Concentrating Co.
 Polaris Development & Mining Co.
 Polaris Mining Co.
 Rex Consolidated Mining Co.
 Rex Mining Co.
 Roberts Coeur d'Alene Mining and Milling Co.
 Sherman Lead Co.
 Silver Summit Mining Co.
 Snowstorm Leasing Co.
 Snowstorm Mines Consolidated
 Snowstorm Mining Co.
 Snowstorm Silver Lead Co.
 Stanley Consolidated Mining and Milling Co.
 Stanley Mining Co.
 Stratton's Mines Co.
 Success Mining Co., Ltd.
 Tamarack and Chesapeake Mining Co.
 Tamarack and Custer Consolidated Mining Co.
 Tuscumbia Mining Co.
 Various California Mine Owners
 Various Carlisle Mine Owners
 Various Interstate-Callahan Mine Owners

Various Marsh Mine Owners
Various Morning Mine Owners
Various Ray Jefferson Mine Owners
Various Silver Tip Mine Owners
Various Snowstorm Mine Owners
Various Tiger-Poorman Owners
Various Tough Nut Mine Owners
Various Tuscumbia Mine Owners
Western Union Mining Co.

Draft Mine Production Report

Alice Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1909	Alice Mining Co.	Owner 100.00%	2,907
1910	Alice Mining Co.	Owner 100.00%	2,907
1911	Alice Mining Co.	Owner 100.00%	2,907
1912	Alice Mining Co.	Owner 100.00%	2,907
1913	Alice Mining Co.	Owner 100.00%	2,907
1914	Alice Mining Co.	Owner 100.00%	2,907
1915	Alice Mining Co.	Owner 100.00%	2,907
	American Slime Concentrating Co.	Operator 0.00%	0
1916	Alice Mining Co.	Owner 100.00%	2,907
1917	Alice Mining Co.	Owner 100.00%	2,907
1918	Alice Mining Co.	Owner 100.00%	2,907
1919	Alice Mining Co.	Owner 100.00%	2,907
1920	Alice Mining Co.	Owner 100.00%	2,907
1921	Alice Mining Co.	Owner 100.00%	2,907
1923	Alice Mining Co.	Owner 100.00%	2,907
1924	Alice Mining Co.	Owner 100.00%	2,907
1925	Alice Mining Co.	Owner 50.00%	1,454
	Hercules Mining Co.	Operator 50.00%	1,454
1926	Alice Mining Co.	Owner 50.00%	1,454
	Hercules Mining Co.	Operator 50.00%	1,454
Total Short Tons of Mined Ore:			49,419

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Alice Mining Co.	46,512	94.12%
Hercules Mining Co.	2,907	5.88%
American Slime Concentrating Co.	0	0.00%

ALICE MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures represent Jasberg's total (Mines Grouped by Location II, p. 1) divided by the number of years of production provided by Mitchell and Bennett. Total short tons from this mine according to Jasberg and Mitchell and Bennett is 49,419 (p. 17).

SOURCES OF OWNERS AND OPERATORS

1909-1914, Alice Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1909, pp. 119-120; 1910, p. 18; 1911, p. 114; 1912, p. 160; 1922, p. 126) U.S. Geological Survey, *Mineral Resources of the United States* (1912, p. 733-734; 1913, p. 783)

1915, Alice Mining Co., owner, and American Slime Concentrating Co., operator. See U.S. Geological Survey, *Mineral Resources of the United States* (1915, p. 554)

1916-1924, Alice Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1916, p. 594; 1917, p. 487); Inspector of Mines, *Mining Industry of Idaho* (1922, p. 126; 1923, p. 137; 1924, p. 153)

1925-1926, Alice Mining Co., owner, and Hercules Mining Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1925, p. 177; 1926, p. 174)

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1915, HRA attributed all production to owner because operator could not be linked to a Defendant.

1925-1926, HRA divided production equally between the owner and the operator because both companies are linked to Defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Alice Mining Co. was bought out by Alice Consolidated Mines Co. in 1970 (Ridolfi Engineers and Associates, Inc., 1991, see "Alice Consolidated Mines, Inc.")

Alice Consolidated Mines, Inc. is a Defendant.

Hercules Mining Co. is linked to a Defendant. Hercules' production is included in Hecla Mining Company's share.

Draft Mine Production Report

Amazon Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore	
1912	Amazon-Manhattan Group	Owner	100.00%	304
1918	Amazon-Manhattan Mining Co.	Owner	100.00%	10,245
1923	Amazon-Manhattan Mining Co.	Owner	100.00%	10
1937	Amazon-Manhattan Mining Co.	Owner	100.00%	829
1941	Monitor Mining Co.	Owner	100.00%	1,232
1942	Monitor Mining Co.	Owner	100.00%	14,693
1943	Monitor Mining Co.	Owner	100.00%	36,965
1944	Monitor Mining Co.	Owner	100.00%	77,003
1945	Monitor Mining Co.	Owner	100.00%	77,555
1946	Monitor Mining Co.	Owner	100.00%	48,608
1947	Day Mines, Inc.	Owner	100.00%	77,382
1948	Day Mines, Inc.	Owner	100.00%	96,823
1949	Day Mines, Inc.	Owner	100.00%	101,504
1950	Day Mines, Inc.	Owner	100.00%	33,882
1951	Day Mines, Inc.	Owner	100.00%	66,846
1952	Day Mines, Inc.	Owner	100.00%	51,010
1953	Day Mines, Inc.	Owner	100.00%	4,654
1954	Day Mines, Inc.	Owner	100.00%	1,369
1955	Day Mines, Inc.	Owner	100.00%	2,717
1956	Day Mines, Inc.	Owner	100.00%	15,365
1957	Day Mines, Inc.	Owner	100.00%	17,084
1958	Day Mines, Inc.	Owner	100.00%	16,985
1959	Day Mines, Inc.	Owner	100.00%	16,468
1960	Day Mines, Inc.	Owner	100.00%	25,401
1961	Day Mines, Inc.	Owner	100.00%	23,247
1962	Day Mines, Inc.	Owner	100.00%	21,273
1963	Day Mines, Inc.	Owner	100.00%	37,619
1964	Day Mines, Inc.	Owner	100.00%	74,152
1965	Day Mines, Inc.	Owner	100.00%	96,075
1966	Day Mines, Inc.	Owner	100.00%	34,886
1967	Day Mines, Inc.	Owner	100.00%	22,124
1968	Day Mines, Inc.	Owner	100.00%	19,258
1969	Day Mines, Inc.	Owner	100.00%	19,242
1970	Day Mines, Inc.	Owner	100.00%	18,822
1971	Day Mines, Inc.	Owner	100.00%	19,421
1972	Day Mines, Inc.	Owner	100.00%	20,259
1973	Day Mines, Inc.	Owner	100.00%	20,674
1974	Day Mines, Inc.	Owner	100.00%	22,118
1975	Day Mines, Inc.	Owner	100.00%	19,448
1976	Day Mines, Inc.	Owner	100.00%	21,027
1977	Day Mines, Inc.	Owner	100.00%	3,328

Total Short Tons of Mined Ore:

1,287,907

Total Short Tons of Mined Ore per Owner/Operator:

Percentage of This Mine's Ore:

Day Mines, Inc.	1,020,463	79.23%
Monitor Mining Co.	256,056	19.88%
Amazon-Manhattan Mining Co.	11,084	0.86%
Amazon-Manhattan Group	304	0.02%

AMAZON MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. P-1, pp. 15-17. Total figure of short tons from this mine according to Mitchell and Bennett is 1,287,907 (p. 11).

SOURCES OF OWNERS AND OPERATORS

1912, Amazon-Manhattan Group, owner. See Inspector of Mines, *Mining Industry of Idaho* (1913, p. 133).

1918, 1923, 1937, Amazon-Manhattan Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1920, p. 88).

1941-1946, Monitor Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1941, p. 225).

1947-1977, Day Mines, Inc. See Inspector of Mines, *Mining Industry of Idaho* (1951, 76).

COMPANY-DEFENDANT RELATIONSHIPS

Amazon-Manhattan Mining Co. merged with Monitor Mining Co. in 1940.

Monitor Mining Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Production of Amazon-Manhattan Group is included in the share of Hecla Mining Co. as current owner and successor in interest.

Draft Mine Production Report

Ambergris/Gulf/Honolulu Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1919	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1920	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1921	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1922	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1923	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1924	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1925	Ambergris Mines Co.	Owner	25.00%
	Guelph Mining and Milling Co., Ltd.	Owner	25.00%
	Hercules Mining Co.	Operator	25.00%
	Honolulu Mining Co., Ltd.	Owner	25.00%
1926	Ambergris Mines Co.	Owner	25.00%
	Guelph Mining and Milling Co., Ltd.	Owner	25.00%
	Hercules Mining Co.	Operator	25.00%
	Honolulu Mining Co., Ltd.	Owner	25.00%
1927	Ambergris Mines Co.	Owner	25.00%
	Guelph Mining and Milling Co., Ltd.	Owner	25.00%
	Hercules Mining Co.	Operator	25.00%
	Honolulu Mining Co., Ltd.	Owner	25.00%
1928	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1929	Ambergris Consolidated Mining Co.	Owner	100.00%
1930	Ambergris Consolidated Mining Co.	Owner	100.00%
1931	Ambergris Consolidated Mining Co.	Owner	100.00%

Total Short Tons of Mined Ore:**16,786**

Total Short Tons of Mined Ore per Owner/Operator:**Percentage of This Mine's Ore:**

Ambergis Mines Co.	4,042	24.08%
Honolulu Mining Co., Ltd.	3,951	23.54%
Guelph Mining and Milling Co., Ltd.	3,951	23.54%
Ambergis Consolidated Mining Co.	3,873	23.07%
Hercules Mining Co.	968	5.77%

12/11/97

AMBERGRIS/GULF/HONOLULU MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett. Total short tons of mined ore are from Jasberg's data, Sheet "Mines Grouped by Location," p. 2. Total figure of short tons from this mine according to Mitchell and Bennett is 16,786 (p. 20.).

SOURCES OF OWNERS AND OPERATORS

1919-1924, Ambergris Mines Co., Guelph Mining and Milling Co., Ltd., Honolulu Mining Co., Ltd., owners. See Inspector of Mines, *Mining Industry of Idaho* (1920, pp. 99-100; 1922, pp. 142, 144; 1923, pp. 137, 155).

1925-1927, Ambergris Mines Co., Guelph Mining and Milling Co., Ltd., and Honolulu Mining Co., Ltd., owners, and Hercules Mining Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1925, pp. 197, 200; 1926, p. 198; 1927, pp. 185, 211).

1928, Ambergris Mines Co., Guelph Mining and Milling Co., Ltd., and Honolulu Mining Co., Ltd., owners. (1928, pp. 177, 199, 202 and 203).

1929-1931, Ambergris Consolidated Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1929, pp. 201, 227; 1930, pp. 206, 233; 1934, p. 205).

Post-1931, Hercules Mining Co. owned the Ambergris group of claims by 1940. See Inspector of Mines, *Mining Industry of Idaho* (1940, p. 203).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

HRA divided production equally between the three different owners. When Hercules Mining Co. began operating the mine, HRA then divided production equally between the three owners and the operator. All companies are linked to Hecla Mining Co. as defendant.

COMPANY-DEFENDANT RELATIONSHIPS

Production of Ambergris Mines Co., Honolulu Mining Co., Ltd., Guelph Mining and Milling Co., Ltd., and Ambergris Consolidated Mining Co. is included in the share of Hecla Mining Co. as current owner and successor in interest.

Hercules Mining Co. merged with Day Mines in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Draft Mine Production Report

Atlas Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1930	Atlas Mining Co.	Owner 100.00%	302
1931	Atlas Mining Co.	Owner 100.00%	302
1939	Atlas Mining Co.	Owner 100.00%	302
1940	Atlas Mining Co.	Owner 0.00%	0
	Hecla Mining Co.	Operator 100.00%	302
1941	Atlas Mining Co.	Owner 0.00%	0
	Hecla Mining Co.	Operator 100.00%	302
1942	Atlas Mining Co.	Owner 0.00%	0
	Hecla Mining Co.	Operator 100.00%	302
1943	Atlas Mining Co.	Owner 0.00%	0
	Hecla Mining Co.	Operator 100.00%	302
1944	Atlas Mining Co.	Owner 0.00%	0
	Hecla Mining Co.	Operator 100.00%	302
1951	Atlas Mining Co.	Owner 0.00%	0
	Hecla Mining Co.	Operator 100.00%	302
1952	Atlas Mining Co.	Owner 0.00%	0
	Hecla Mining Co.	Operator 100.00%	302
1953	Atlas Mining Co.	Owner 0.00%	0
	Hecla Mining Co.	Operator 100.00%	302
1954	Atlas Mining Co.	Owner 0.00%	0
	Hecla Mining Co.	Operator 100.00%	302
1960	Atlas Mining Co.	Owner 100.00%	302
1961	Atlas Mining Co.	Owner 100.00%	301
1962	Atlas Mining Co.	Owner 100.00%	301
1963	Atlas Mining Co.	Owner 100.00%	301
1964	Atlas Mining Co.	Owner 100.00%	301
1965	Atlas Mining Co.	Owner 100.00%	301
1966	Atlas Mining Co.	Owner 100.00%	301
1967	Atlas Mining Co.	Owner 100.00%	301
1968	Atlas Mining Co.	Owner 100.00%	301
1969	Atlas Mining Co.	Owner 100.00%	301
1970	Atlas Mining Co.	Owner 100.00%	301
Total Short Tons of Mined Ore:			6,936

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Atlas Mining Co.	4,218	60.81%
Hecla Mining Co.	2,718	39.19%

ATLAS MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production identified during HRA research. Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet "Mines Grouped by Location," p. 1. Total figure of short tons from this mine according to Mitchell and Bennett is 6,936 (p. 18).

SOURCES OF OWNERS AND OPERATORS

1930-1931, 1939, Atlas Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1930, pp. 203, 207; 1931, pp. 197, 201; 1939, pp. 249, 253). Production periods represent years when the mine was reported to be active.

1940-1944, 1951-1954, Atlas Mining Co., owner, and Hecla Mining Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1940, pp. 184, 190; 1941, p. 207; 1942, p. 133; 1943, p. 194; 1944, p. 159; 1951, p. 70; 1952, p. 108; 1953, p. 143; 1955, p. 116). Production periods represent years when the mine was reported to be active.

1960-1970, Atlas Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1968, p. 108; 1969-1970, p. 140).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1940-1944, 1951-1954, HRA allocated production to the operator, since it is a defendant. The owner has not been linked to a defendant.

COMPANY-DEFENDANT RELATIONSHIPS

Atlas Mining Co. has not been linked to a defendant, nor has it been identified as a defendant. Production associated with this company alone has not been included in the total ore mined in the basin.

Hecla Mining Co. is a defendant.

Draft Mine Production Report

Black Bear Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1927	Black Bear Mines Co.	Owner	100.00% 433
	United Metals Co.	Operator	0.00% 0
1933	Black Bear Mines Co.	Owner	100.00% 35
	United Metals Co.	Operator	0.00% 0
1940	Black Bear Mines Co.	Owner	100.00% 1,000
	United Metals Co.	Operator	0.00% 0
1941	Black Bear Mines Co.	Owner	100.00% 1,200
	United Metals Co.	Operator	0.00% 0
1945	Black Bear Mines Co.	Owner	100.00% 690
	United Metals Co.	Operator	0.00% 0
1946	Black Bear Mines Co.	Owner	100.00% 2,157
1949	Black Bear Mines Co.	Owner	100.00% 2,260
1950	Black Bear Mines Co.	Owner	100.00% 2,048
1951	Black Bear Mines Co.	Owner	100.00% 6,738
1952	Black Bear Mines Co.	Owner	100.00% 557
1953	Black Bear Mines Co.	Owner	100.00% 1,686
1957	Black Bear Mines Co.	Owner	100.00% 653
	Metropolitan Mines Corporation	Operator	0.00% 0
1973	Black Bear Mines Co.	Owner	100.00% 270
	Charles Asher, sublessee	Operator	0.00% 0
	Silver Trend Mining Co.	Operator	0.00% 0
Total Short Tons of Mined Ore:			19,727

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Black Bear Mines Co.	19,727	100.00%
United Metals Co.	0	0.00%
Silver Trend Mining Co.	0	0.00%
Metropolitan Mines Corporation	0	0.00%
Charles Asher, sublessee	0	0.00%

BLACK BEAR MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. P-2, pp. 15-17. Total figure of short tons from this mine according to Mitchell and Bennett is 19,727 (p. 19).

SOURCES OF OWNERS AND OPERATORS

1927, 1933, 1940-1941, 1945, Black Bear Mines Co., owner, and United Metals Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1927, pp. 188, 233; 1933, pp. 183, 229; 1940, pp. 192, 221; 1941, pp. 208, 235; 1945, pp. 200, 224).

1946, 1949-1953, Black Bear Mines Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1946, p. 197; 1949, p. 179; 1950, p. 200; 1951, p. 71; 1952, p. 109; 1953, p. 144).

1957, Black Bear Mines Co., owner, and Metropolitan Mines Corp., operator. See Inspector of Mines, *Mining Industry of Idaho*, 1957, p. 118).

1973, Black Bear Mines Co., owner, and Charles Asher and Silver Trend Mining Co., operators. See "Report on the Black Bear Property," February 1974 (ASAIID163-00100).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

HRA attributed all production to the owner because the operators could not be linked to defendants.

COMPANY-DEFENDANT RELATIONSHIPS

The Black Bear Mines Co. may have been part of the Day Mines, Inc. According to the Metsker map, the Black Bear claims were the property of Day Mines, Inc. et al.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Production from this mine is included in Hecla Mining Co.'s share as current owner and successor in interest.

Draft Mine Production Report

Blue Grouse Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1952	Day Mines, Inc.	Owner	100.00% 152
1953	Day Mines, Inc.	Owner	100.00% 152
1954	Day Mines, Inc.	Owner	100.00% 152
1955	Day Mines, Inc.	Owner	100.00% 152
1956	Day Mines, Inc.	Owner	100.00% 152
1957	Day Mines, Inc.	Owner	100.00% 152
1958	Day Mines, Inc.	Owner	100.00% 152
1959	Day Mines, Inc.	Owner	100.00% 153
1960	Day Mines, Inc.	Owner	100.00% 153
1961	Day Mines, Inc.	Owner	100.00% 153
1962	Day Mines, Inc.	Owner	100.00% 153
1963	Day Mines, Inc.	Owner	100.00% 153
1964	Day Mines, Inc.	Owner	100.00% 153
1965	Day Mines, Inc.	Owner	100.00% 153
1966	Day Mines, Inc.	Owner	100.00% 153
1967	Day Mines, Inc.	Owner	100.00% 153
1968	Day Mines, Inc.	Owner	100.00% 153
1969	Day Mines, Inc.	Owner	100.00% 153
Total Short Tons of Mined Ore:			2,747

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Day Mines, Inc.	2,747	100.00%
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BLUE GROUSE MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett. Total short tons of mined ore and year-by-year production figures are from Jasberg's data, Sheet "Mines Grouped by Location," p. 4. Total figure of short tons from this mine according to Mitchell and Bennett is 2,747 (p. 11).

SOURCES OF OWNERS AND OPERATORS

1952-1969, Day Mines, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* (1951, p. 76; 1960, pp. 66-67).

COMPANY-DEFENDANT RELATIONSHIPS

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Production from this mine is included in Hecla Mining Co.'s share as current owner and successor in interest

Draft Mine Production Report

California Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1902	Various California Mine Owners	Owner 100.00%	2,045
1903	Various California Mine Owners	Owner 100.00%	2,045
1904	Various California Mine Owners	Owner 100.00%	2,045
1905	Various California Mine Owners	Owner 100.00%	2,045
1906	Various California Mine Owners	Owner 100.00%	2,045
1907	Various California Mine Owners	Owner 100.00%	2,045
1908	Various California Mine Owners	Owner 100.00%	2,045
1909	Various California Mine Owners	Owner 100.00%	2,045
1910	Various California Mine Owners	Owner 100.00%	2,045
1911	Various California Mine Owners	Owner 100.00%	2,045
1912	Various California Mine Owners	Owner 100.00%	2,045
1913	Various California Mine Owners	Owner 100.00%	2,045
1914	Various California Mine Owners	Owner 100.00%	2,045
1915	Various California Mine Owners	Owner 100.00%	2,045
1916	Various California Mine Owners	Owner 100.00%	2,045
1917	Various California Mine Owners	Owner 100.00%	2,045
1918	Various California Mine Owners	Owner 100.00%	2,045
1919	Various California Mine Owners	Owner 100.00%	2,045
1920	Various California Mine Owners	Owner 100.00%	2,045
1921	Various California Mine Owners	Owner 100.00%	2,045
1922	Various California Mine Owners	Owner 100.00%	2,045
1923	Various California Mine Owners	Owner 100.00%	2,045
1924	Various California Mine Owners	Owner 100.00%	2,045
1925	Various California Mine Owners	Owner 100.00%	2,044
Total Short Tons of Mined Ore:			49,079

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Various California Mine Owners	49,079	100.00%
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CALIFORNIA MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett.

Total short tons of mined ore and year-by-year production figures are from Jasberg's data, Sheet "Mines Grouped by Location," p. 5. Total figure of short tons from this mine according to Mitchell and Bennett is 49,079 (p. 17).

SOURCES OF OWNERS AND OPERATORS

1902-1925, Various California Owners. No information is available on this mine other than its ownership after the production period. The mine appears to consist of four tunnels, the lowest of which is near the Nine Mile's Black Cloud Creek, according to the Hobbs map, which depicts the California Mine and "California No. 4." The Metsker map shows the California, Silver, and Galena claims in the area of the California mine and "California No. 4." It indicates that the claims are the property of Day Mines, Inc., which merged with Hecla Mining Co. in 1981.

COMPANY-DEFENDANT RELATIONSHIPS

Production of Various California Mine Owners is included in the share of Hecla Mining Co. as current owner and successor in interest.

Draft Mine Production Report

Carlisle Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1942	Various Carlisle Mine Owners	Owner	100.00% 13,160
1943	Monitor Mining Co.	Owner	100.00% 13,160
1944	Monitor Mining Co.	Owner	100.00% 13,160
1945	Monitor Mining Co.	Owner	100.00% 13,161
1946	Monitor Mining Co.	Owner	100.00% 13,161
1947	Day Mines, Inc.	Owner	100.00% 13,161
Total Short Tons of Mined Ore:			78,963

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Monitor Mining Co.	52,642	66.67%
Day Mines, Inc.	13,161	16.67%
Various Carlisle Mine Owners	13,160	16.67%

CARLISLE MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett.

Total short tons of mined ore and year-by-year production figures are from Jasberg's data, Sheet "Mines Grouped by Location," p. 2. Total figure of short tons from this mine according to Mitchell and Bennett is 78,963 (p.11).

SOURCES OF OWNERS AND OPERATORS

1943-1946, Monitor Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1943, p. 373; 1944, p. 357; 1945, p. 373; 1946, p. 1442).

1947, Day Mines, Inc. owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1947) and Inspector of Mines, *Mining Industry of Idaho* (1951, p. 77).

COMPANY-DEFENDANT RELATIONSHIPS

Monitor Mining merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Production of Various Carlisle Mine Owners is included in the share of Hecla Mining Co. as current owner and successor in interest.

Draft Mine Production Report

Coeur Unit Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1969	American Smelting and Refining Co.	Operator	83.34% 10,227
	Callahan Mining Corp.	Operator	8.33% 1,022
	Day Mines, Inc.	Operator	8.33% 1,022
1974	American Smelting and Refining Co.	Operator	83.34% 3,750
	Callahan Mining Corp.	Operator	8.33% 375
	Day Mines, Inc.	Operator	8.33% 375
1976	American Smelting and Refining Co.	Operator	83.34% 98,806
	Callahan Mining Corp.	Operator	8.33% 9,876
	Day Mines, Inc.	Operator	8.33% 9,876
1977	American Smelting and Refining Co.	Operator	83.34% 122,447
	Callahan Mining Corp.	Operator	8.33% 12,239
	Day Mines, Inc.	Operator	8.33% 12,239
1978	American Smelting and Refining Co.	Operator	83.34% 126,668
	Callahan Mining Corp.	Operator	8.33% 12,661
	Day Mines, Inc.	Operator	8.33% 12,661
1979	American Smelting and Refining Co.	Operator	50.00% 78,206
	Callahan Mining Corp.	Operator	5.00% 7,821
	Coeur d'Alene Mines Corp.	Owner	40.00% 62,564
	Day Mines, Inc.	Operator	5.00% 7,821
1980	American Smelting and Refining Co.	Operator	50.00% 82,483
	Callahan Mining Corp.	Operator	5.00% 8,248
	Coeur d'Alene Mines Corp.	Owner	40.00% 65,986
	Day Mines, Inc.	Operator	5.00% 8,248
Total Short Tons of Mined Ore:			755,620

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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American Smelting and Refining Co.	522,587	69.16%
Coeur d'Alene Mines Corp.	128,550	17.01%
Day Mines, Inc.	52,241	6.91%
Callahan Mining Corp.	52,241	6.91%

COEUR UNIT MINE ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 13-14. Total short tons from this mine according to Mitchell and Bennett is 755,618, or two tons less than Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

See below.

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1969, American Smelting and Refining Co., Callahan Mining Corp., and Day Mines, Inc., operators. Property operated by ASARCO under a 60%-40% working agreement of 1964 (Coeur d'Alene Mines Corp. annual report 1969/1970, see "Coeur Project"). Callahan had 1/12th interest in profit-sharing lease held by ASARCO. After capital recovery the 1/12th interest would equal 5% of the project. (Callahan Mining Corp. annual report, 1969, p.7) Day Mines participated by a 1/12 interest in ASARCO's lease on the Coeur property (Day Mines, Inc. annual report, 1969, p.5)

1974-1978, American Smelting and Refining Co., Callahan Mining Corp., and Day Mines, Inc., operators. See reference to amendments to Coeur agreement of 8-31-1964 in Coeur d'Alene Mines Corp. annual report, 1974, "Litigation"). For Callahan contribution of 8.33% to project, see Callahan Mining Corp. annual report, 1974, p.4. After investment was reimbursed, Callahan would have 5% interest in mine (1974 Callahan CAR , p.4). For reference to resolution of litigation, see Day Mines Inc. annual report, 1974, p. 5.

Coeur d'Alene Mines CAR's, 1975: after ASARCO's reimbursement for development's expenditures, ores "will be divided 40% to Coeur d'Alene Mines Corp. and 60% to American Smelting and Refining Co." (see "Note 1"); 1976: after ASARCO's reimbursement, Coeur d'Alene Mines Corp. "will have a 40% operating interest in the mine" (see "Litigation").

For 1976, see Callahan Mining Corp. annual report, 1976, p.3: Callahan entitled to 8.33% of mine profits until investment recovery; after recovery Callahan would retain a 5% interest.

For 1976, also see Day Mines, Inc. annual report, 1976, p. 3: DMI had 8.33% ownership in lease.

For 1977, see Callahan Mining Corp. annual report, 1977, p. 4: Callahan entitled to 8.33% of mine profits until investment recovery; after recovery Callahan will retain a 5% interest.

See also Day Mines, Inc. annual report, 1977, p. 3: Day Mines owned 8.33% interest in ASARCO's Coeur lease.

For 1978, see Callahan Mining Corp. annual report, 1978, pp. 3, 7: Callahan entitled to 8.33% of mine profits. When investment was fully recovered, expected during the first half of 1979, Callahan would receive 5% of profits.

For 1978, also see Day Mines, Inc. annual report, 1978, p. 4: DMI had an 8.33% participating interest in ASARCO's lease.

1979-1980, Coeur d'Alene Mines Corp., owner, and American Smelting and Refining Co., Callahan Mining Corp., and Day Mines, Inc., operators. "Following payback of the Company's investment in Coeur during the first quarter of 1979, Callahan now receives 5 percent of mine profits..." (Callahan Mining Corp. annual report, 1979, p. 3).

For 1980, see Callahan Mining Corp. annual report, 1980, p. 8: Callahan received 5% of profits.

Also see Day Mines, Inc. annual report, 1980, p. 8: Day Mines's participating interest in ASARCO's lease represented 5% of Coeur net profits.

Also see ASARCO annual report, 1981, p. 18: ASARCO operated site under lease and joint venture arrangements. ASARCO had a 50% interest in Coeur in operating expenses and profits or losses.

COMPANY-DEFENDANT RELATIONSHIPS

American Smelting and Refining Co. is a Defendant.

Coeur d'Alene Mines Corp. is a Defendant.

Day Mines, Inc. merged with Hecla, a Defendant, in 1981.

Callahan Mining Corp., a Defendant, is also a subsidiary of Coeur d'Alene Mines Corp. Production from this mine by Callahan Mining Corp. is included in Coeur d'Alene Mines Corp.'s share.

Draft Mine Production Report

Dayrock Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1924	Stratton's Mines Co.	Owner 100.00%	841
1926	Stratton's Mines Co.	Owner 100.00%	1,978
1927	Stratton's Mines Co.	Owner 100.00%	17,486
1928	Stratton's Mines Co.	Owner 100.00%	22,117
1929	Dayrock Mining Co.	Owner 100.00%	37,254
1930	Dayrock Mining Co.	Owner 100.00%	29,987
1931	Dayrock Mining Co.	Owner 100.00%	6,463
1935	Dayrock Mining Co.	Owner 100.00%	429
1936	Dayrock Mining Co.	Owner 100.00%	838
1937	Dayrock Mining Co.	Owner 100.00%	6,448
1938	Dayrock Mining Co.	Owner 100.00%	7,073
1939	Dayrock Mining Co.	Owner 100.00%	6,214
1940	Dayrock Mining Co.	Owner 100.00%	9,872
1941	Dayrock Mining Co.	Owner 100.00%	11,280
1942	Dayrock Mining Co.	Owner 100.00%	26,278
1943	Dayrock Mining Co.	Owner 100.00%	27,556
1944	Dayrock Mining Co.	Owner 100.00%	32,833
1945	Dayrock Mining Co.	Owner 100.00%	30,922
1946	Dayrock Mining Co.	Owner 100.00%	27,873
1947	Day Mines, Inc.	Owner 100.00%	46,363
1948	Day Mines, Inc.	Owner 100.00%	56,587
1949	Day Mines, Inc.	Owner 100.00%	50,110
1950	Day Mines, Inc.	Owner 100.00%	58,586
1951	Day Mines, Inc.	Owner 100.00%	56,160
1952	Day Mines, Inc.	Owner 100.00%	58,190
1953	Day Mines, Inc.	Owner 100.00%	70,868
1954	Day Mines, Inc.	Owner 100.00%	61,856
1955	Day Mines, Inc.	Owner 100.00%	40,752
1956	Day Mines, Inc.	Owner 100.00%	48,967
1957	Day Mines, Inc.	Owner 100.00%	47,631
1958	Day Mines, Inc.	Owner 100.00%	16,001
1959	Day Mines, Inc.	Owner 100.00%	12,691
1960	Day Mines, Inc.	Owner 100.00%	11,594
1961	Day Mines, Inc.	Owner 100.00%	7,978
1962	Day Mines, Inc.	Owner 100.00%	9,467
1965	Day Mines, Inc.	Owner 100.00%	5,367
1966	Day Mines, Inc.	Owner 100.00%	35,801
1967	Day Mines, Inc.	Owner 100.00%	20,538
1968	Day Mines, Inc.	Owner 100.00%	26,142
1969	Day Mines, Inc.	Owner 100.00%	30,478
1970	Day Mines, Inc.	Owner 100.00%	23,357
1971	Day Mines, Inc.	Owner 100.00%	61,025
1972	Day Mines, Inc.	Owner 100.00%	64,545
1973	Day Mines, Inc.	Owner 100.00%	35,414

12/11/97

1974	Day Mines, Inc.	Owner	100.00%	16,278
Total Short Tons of Mined Ore:				1,276,488

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Day Mines, Inc.	972,746	76.20%
Dayrock Mining Co.	261,320	20.47%
Stratton's Mines Co.	42,422	3.32%

DAYROCK MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. P-1, pp. 17-19. Total figure of short tons from this mine according to Mitchell and Bennett is 1,276,488 (p. 17).

SOURCES OF OWNERS AND OPERATORS

1924-1928, Stratton Mines Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1924, p. 196; 1927, p. 230; 1928, p. 191).

1929-1946, Dayrock Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1930, p. 219; 1935, p. 242; 1938, p. 209; 1943, p. 199; 1945, p. 205).

1947-1973, Day Mines, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* (1951, pp. 76-77; 1960, p. 66; 1965, p. 73; 1966, p. 92) and U. S. Geological Survey, *Mineral Resources of the United States* (1954, p. 377; 1958, p. 310; 1969, p. 248)

COMPANY-DEFENDANT RELATIONSHIPS

Stratton Mines Co. was renamed the Dayrock Mining Co. in November 1928.

Dayrock Mining Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Production from this mine is included in Hecla Mining Co.'s share as current owner and successor in interest.

Draft Mine Production Report

Fairview & Wide West Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1945	Hercules Mining Co.	Owner 100.00%	9,531
1946	Hercules Mining Co.	Owner 100.00%	9,531
1947	Day Mines, Inc.	Owner 100.00%	9,531
1948	Day Mines, Inc.	Owner 100.00%	9,531
1949	Day Mines, Inc.	Owner 100.00%	9,531
1950	Day Mines, Inc.	Owner 100.00%	9,531
Total Short Tons of Mined Ore:			57,186

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Day Mines, Inc.	38,124	66.67%
Hercules Mining Co.	19,062	33.33%

FAIRVIEW & WIDE WEST MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett. Total short tons of mined ore and year-by-year production figures are from Jasberg's data, Sheet "Mines Grouped by Location," p. 1. Total figure of short tons from this mine according to Mitchell and Bennett is 57,186 (p. 18).

SOURCES OF OWNERS AND OPERATORS

1945-1946, Hercules Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1947, pp. 190-191; 1948, p. 197).

1947-1950, Day mines, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* (1951, p. 76-77).

COMPANY-DEFENDANT RELATIONSHIPS

Hercules Mining Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Production from this mine is included in Hecla Mining Co.'s share as current owner and successor in interest.

Draft Mine Production Report

Galena Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1922	Callahan Zinc-Lead Co.	Owner	91
1926	Callahan Zinc-Lead Co.	Owner	8,600
1927	Callahan Zinc-Lead Co.	Owner	54,698
1928	Callahan Zinc-Lead Co.	Owner	3,429
1929	Callahan Zinc-Lead Co.	Owner	21,501
1930	Callahan Zinc-Lead Co.	Owner	11,654
1931	Callahan Zinc-Lead Co.	Owner	663
1935	Callahan Zinc-Lead Co.	Owner	95
1937	Callahan Zinc-Lead Co.	Owner	1,300
1938	Callahan Zinc-Lead Co.	Owner	79
1950	American Smelting and Refining Co.	Operator	1,089
	Day Mines, Inc.	Operator	363
	Vulcan Silver and Lead Co.	Owner	161
1951	American Smelting and Refining Co.	Operator	696
	Day Mines, Inc.	Operator	232
	Vulcan Silver and Lead Co.	Owner	103
1952	American Smelting and Refining Co.	Operator	8,570
	Day Mines, Inc.	Operator	2,857
	Vulcan Silver and Lead Co.	Owner	1,270
1953	American Smelting and Refining Co.	Operator	29,340
	Day Mines, Inc.	Operator	9,780
	Vulcan Silver and Lead Co.	Owner	4,347
1954	American Smelting and Refining Co.	Operator	32,915
	Day Mines, Inc.	Operator	10,972
	Vulcan Silver and Lead Co.	Owner	4,876
1955	American Smelting and Refining Co.	Operator	38,130
	Day Mines, Inc.	Operator	12,710
	Vulcan Silver and Lead Co.	Owner	5,649
1956	American Smelting and Refining Co.	Operator	59,349
	Day Mines, Inc.	Operator	19,783
	Vulcan Silver and Lead Co.	Owner	8,793
1957	American Smelting and Refining Co.	Operator	83,112
	Day Mines, Inc.	Operator	27,704
	Vulcan Silver and Lead Co.	Owner	12,313
1958	American Smelting and Refining Co.	Operator	80,880
	Callahan Mining Corp.	Owner	11,982
	Day Mines, Inc.	Operator	26,960
1959	American Smelting and Refining Co.	Operator	44,170
	Callahan Mining Corp.	Owner	58,893
	Day Mines, Inc.	Operator	14,723
1960	American Smelting and Refining Co.	Operator	18,261
	Callahan Mining Corp.	Owner	24,348
	Day Mines, Inc.	Operator	6,087
1961	American Smelting and Refining Co.	Operator	44,769

12/10/97

Page 1 of 3

1961	Callahan Mining Corp.	Owner	50.00%	59,693
	Day Mines, Inc.	Operator	12.50%	14,923
1962	American Smelting and Refining Co.	Operator	37.50%	49,879
	Callahan Mining Corp.	Owner	50.00%	66,506
	Day Mines, Inc.	Operator	12.50%	16,626
1963	American Smelting and Refining Co.	Operator	37.50%	54,054
	Callahan Mining Corp.	Owner	50.00%	72,073
	Day Mines, Inc.	Operator	12.50%	18,018
1964	American Smelting and Refining Co.	Operator	37.50%	51,080
	Callahan Mining Corp.	Owner	50.00%	68,107
	Day Mines, Inc.	Operator	12.50%	17,027
1965	American Smelting and Refining Co.	Operator	37.50%	55,371
	Callahan Mining Corp.	Owner	50.00%	73,828
	Day Mines, Inc.	Operator	12.50%	18,457
1966	American Smelting and Refining Co.	Operator	37.50%	58,279
	Callahan Mining Corp.	Owner	50.00%	77,706
	Day Mines, Inc.	Operator	12.50%	19,426
1967	American Smelting and Refining Co.	Operator	37.50%	27,834
	Callahan Mining Corp.	Owner	50.00%	37,113
	Day Mines, Inc.	Operator	12.50%	9,278
1968	American Smelting and Refining Co.	Operator	37.50%	34,748
	Callahan Mining Corp.	Owner	50.00%	46,331
	Day Mines, Inc.	Operator	12.50%	11,583
1969	American Smelting and Refining Co.	Operator	37.50%	50,971
	Callahan Mining Corp.	Owner	50.00%	67,962
	Day Mines, Inc.	Operator	12.50%	16,990
1970	American Smelting and Refining Co.	Operator	37.50%	57,847
	Callahan Mining Corp.	Owner	50.00%	77,129
	Day Mines, Inc.	Operator	12.50%	19,282
1971	American Smelting and Refining Co.	Operator	37.50%	62,361
	Callahan Mining Corp.	Owner	50.00%	83,148
	Day Mines, Inc.	Operator	12.50%	20,787
1972	American Smelting and Refining Co.	Operator	37.50%	71,327
	Callahan Mining Corp.	Owner	50.00%	95,103
	Day Mines, Inc.	Operator	12.50%	23,776
1973	American Smelting and Refining Co.	Operator	37.50%	75,342
	Callahan Mining Corp.	Owner	50.00%	100,456
	Day Mines, Inc.	Operator	12.50%	25,114
1974	American Smelting and Refining Co.	Operator	37.50%	66,336
	Callahan Mining Corp.	Owner	50.00%	88,448
	Day Mines, Inc.	Operator	12.50%	22,112
1975	American Smelting and Refining Co.	Operator	37.50%	66,893
	Callahan Mining Corp.	Owner	50.00%	89,191
	Day Mines, Inc.	Operator	12.50%	22,298
1976	American Smelting and Refining Co.	Operator	37.50%	68,352
	Callahan Mining Corp.	Owner	50.00%	91,136
	Day Mines, Inc.	Operator	12.50%	22,784
1977	American Smelting and Refining Co.	Operator	37.50%	66,639
	Callahan Mining Corp.	Owner	50.00%	88,852
	Day Mines, Inc.	Operator	12.50%	22,213
1978	American Smelting and Refining Co.	Operator	37.50%	66,060
	Callahan Mining Corp.	Owner	50.00%	88,080

1978	Day Mines, Inc.	Operator	12.50%	22,020
1979	American Smelting and Refining Co.	Operator	37.50%	66,352
	Callahan Mining Corp.	Owner	50.00%	88,470
	Day Mines, Inc.	Operator	12.50%	22,117
1980	American Smelting and Refining Co.	Operator	37.50%	71,382
	Callahan Mining Corp.	Owner	50.00%	95,176
	Day Mines, Inc.	Operator	12.50%	23,794
Total Short Tons of Mined Ore:				3,872,535

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Callahan Mining Corp.	1,649,727	42.60%
American Smelting and Refining Co.	1,562,390	40.35%
Day Mines, Inc.	520,797	13.45%
Callahan Zinc-Lead Co.	102,110	2.64%
Vulcan Silver and Lead Co.	37,511	0.97%

GALENA MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 5-6. Total short tons from this mine according to Mitchell and Bennett is 3,872,524, or 11 tons less than Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1922, Callahan Zinc-Lead Co., owner. Not confirmed, but by 1922 Galena Mining Company was consolidated with Callahan Zinc-Lead Co. according to Idaho Inspector of Mines, *Mining Industry of Idaho*, 1922.

1926-1938, Callahan Zinc-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho*, 1926.

1950-1980, see below.

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1950-1957, Vulcan Silver and Lead Co., owner; American Smelting and Refining Co., Day Mines, Inc., operators. In 1946, Callahan Zinc-Lead Co. deeded 2/3 interest in the Galena Mine to Vulcan Silver and Lead Co. (Moody's Investors Service, *Industrial Manual* [title varies], 1957, pp. 839-40). On January 15, 1947, Vulcan Silver-Lead Company leased its property to ASARCO for a term of 30 years, with option to continue another 30. After production of ore was started, Vulcan Silver-Lead Co. was to receive a royalty of 10 percent (Callahan Zinc-Lead Co. annual report, 1950).

HRA has not yet verified Jasberg's finding that Day Mines, Inc. had a 25% interest in ASARCO's lease in this period. See Jasberg, P-2, pp. 5-6. HRA's earliest annual report for Day Mines, Inc. (1959, p. 4) notes Day Mines, Inc.'s 25% interest.

1958, Callahan Mining Corp., owner. Callahan Zinc-Lead Co. and Vulcan Silver and Lead Co. merged into Callahan Mining Corp. See Moody's Investors Service, *Industrial Manual* (title varies), 1958, p. 1213.

1959-1980, Callahan Mining Corp., owner; American Smelting and Refining Co., Day Mines, Inc., operators. Callahan Mining Corp. had 50% interest (Callahan Mining Corp. annual report, 1959, p. 4; 1961, p. 4; 1962, p. 2; Moody's Investors

Service, *Industrial Manual* [title varies], 1966, p. 366; 1971, p. 1293; 1976, p. 1040-41; 1981, p. 1827).

Day Mines, Inc. still had 25% interest in ASARCO lease (Moody's Investors Service, *Industrial Manual*, 1957, pp. 839-40.

COMPANY-DEFENDANT RELATIONSHIPS

Callahan Mining Corp. is a Defendant and a subsidiary of Coeur d'Alene Mines Corp.

American Smelting and Refining Co. is a Defendant.

Day Mines, Inc. merged with Hecla Mining Co., a Defendant, in 1981.

Callahan Zinc-Lead Co. and Vulcan Silver and Lead Co. merged to form Callahan Mining Corp. in 1958.

Production from this mine by Callahan Mining Corp., Callahan Zinc-Lead Co., and Vulcan Silver and Lead Co. was included in Coeur d'Alene Mines Corp.'s share.

Draft Mine Production Report

Gold Hunter Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1901	Gold Hunter Mining and Smelting Co.	Owner 100.00%	43,553
1902	Gold Hunter Mining and Smelting Co.	Owner 100.00%	34,871
1903	Gold Hunter Mining and Smelting Co.	Owner 100.00%	34,331
1904	Gold Hunter Mining and Smelting Co.	Owner 100.00%	11,760
1905	Gold Hunter Mining and Smelting Co.	Owner 100.00%	31,930
1906	Gold Hunter Mining and Smelting Co.	Owner 100.00%	47,357
1907	Gold Hunter Mining and Smelting Co.	Owner 100.00%	49,453
1908	Gold Hunter Mining and Smelting Co.	Owner 100.00%	37,667
1909	Gold Hunter Mining and Smelting Co.	Owner 100.00%	61,979
1910	Gold Hunter Mining and Smelting Co.	Owner 100.00%	82,481
1911	Gold Hunter Mining and Smelting Co.	Owner 100.00%	86,190
1912	Gold Hunter Mining and Smelting Co.	Owner 100.00%	114,803
1913	Gold Hunter Mining and Smelting Co.	Owner 100.00%	114,025
1914	Gold Hunter Mining and Smelting Co.	Owner 100.00%	114,737
1915	Gold Hunter Mining and Smelting Co.	Owner 100.00%	118,764
1916	Gold Hunter Mining and Smelting Co.	Owner 100.00%	119,490
1917	Gold Hunter Mining and Smelting Co.	Owner 100.00%	122,424
1918	Gold Hunter Mining and Smelting Co.	Owner 100.00%	151,595
1919	Gold Hunter Mining and Smelting Co.	Owner 100.00%	132,921
1920	Gold Hunter Mining and Smelting Co.	Owner 100.00%	160,027
1921	Gold Hunter Mining and Smelting Co.	Owner 100.00%	5,373
1922	Gold Hunter Mining and Smelting Co.	Owner 100.00%	15,690
1923	Gold Hunter Mining and Smelting Co.	Owner 100.00%	28,760
1924	Gold Hunter Mining and Smelting Co.	Owner 100.00%	104,633
1925	Gold Hunter Mines, Inc.	Owner 100.00%	123,125
1926	Gold Hunter Mines, Inc.	Owner 100.00%	119,915
1927	Gold Hunter Mines, Inc.	Owner 100.00%	130,742
1928	Gold Hunter Mines, Inc.	Owner 100.00%	133,160
1929	Gold Hunter Mines, Inc.	Owner 100.00%	115,522
1930	Gold Hunter Mines, Inc.	Owner 100.00%	81,193
1933	Gold Hunter Mines, Inc.	Owner 100.00%	18,300
1934	Gold Hunter Mines, Inc.	Owner 100.00%	36,000
1935	Gold Hunter Mines, Inc.	Owner 100.00%	36,000
1936	Gold Hunter Mines, Inc.	Owner 100.00%	46,750
1937	Gold Hunter Mines, Inc.	Owner 100.00%	57,000
1938	Gold Hunter Mines, Inc.	Owner 100.00%	34,000
1939	Gold Hunter Mines, Inc.	Owner 100.00%	36,143
1940	Gold Hunter Mines, Inc.	Owner 100.00%	38,500
1941	Gold Hunter Mines, Inc.	Owner 100.00%	52,071
1942	Gold Hunter Mines, Inc.	Owner 100.00%	65,417
1943	Gold Hunter Mines, Inc.	Owner 100.00%	52,760
1944	Gold Hunter Mines, Inc.	Owner 100.00%	46,200
1945	Gold Hunter Mines, Inc.	Owner 100.00%	39,589
1946	Gold Hunter Mines, Inc.	Owner 100.00%	47,180

12/11/97

1947	Gold Hunter Mines, Inc.	Owner	100.00%	46,753
1948	Gold Hunter Mines, Inc.	Owner	100.00%	42,077
1949	Gold Hunter Mines, Inc.	Owner	100.00%	23,060
1950	Gold Hunter Mines, Inc.	Owner	100.00%	1,370
1951	Gold Hunter Mines, Inc.	Owner	100.00%	700
1952	Gold Hunter Mines, Inc.	Owner	100.00%	378
1954	Gold Hunter Mines, Inc.	Owner	100.00%	52
Total Short Tons of Mined Ore:				3,248,771

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Gold Hunter Mining and Smelting Co.	1,824,814	56.17%
Gold Hunter Mines, Inc.	1,423,957	43.83%

GOLD HUNTER MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet M-8, pp. 1-2. Total short tons from this mine according to Mitchell and Bennett is 3,260,750, or 11,979 tons more than Jasberg's total. HRA is unable to account for this difference.

SOURCES OF OWNERS AND OPERATORS

1901-1924, Gold Hunter Mining and Smelting Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1905, p. 240; 1906, p. 266; 1907, p. 308; 1908, p. 432; 1909, p. 354; 1910, p. 466; 1911, p. 598; 1912, p. 733; 1919, p. 478); Idaho Inspector of Mines, *Mining Industry of Idaho* (1922, p. 142).

1925-1954, Gold Hunter Mines, Inc., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1925, p. 196; 1935, p. 248; 1939, p. 266; 1942, p. 140; 1943, p. 376; 1944; 1945; 1954, p. 130). See also U.S. Geological Survey, *Mineral Resources of the United States* (1930; 1948, p. 1507; 1949, p. 1479), which confirm that Gold Hunter Mines, Inc. was operating mine.

For post-1954, see Idaho Inspector of Mines, *Mining Industry of Idaho* (1955, p. 125; 1957, p. 124: Gold Hunter dewatering and rehabilitating the mine shaft; 1961: Gold Hunter merged with Day Mines, Inc.).

COMPANY-DEFENDANT RELATIONSHIPS

Gold Hunter Mining & Smelting Co. changed its name to Gold Hunter Mines, Inc.

Gold Hunter Mines, Inc. merged with Day Mines, Inc. in 1961.

Day Mines, Inc. merged with Hecla Mining Co., a Defendant, in 1981.

Production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Hecla Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1901	Hecla Mining Co.	Owner 100.00%	10,230
1902	Hecla Mining Co.	Owner 100.00%	46,021
1903	Hecla Mining Co.	Owner 100.00%	71,940
1904	Hecla Mining Co.	Owner 100.00%	79,475
1905	Hecla Mining Co.	Owner 100.00%	96,918
1906	Hecla Mining Co.	Owner 100.00%	103,228
1907	Hecla Mining Co.	Owner 100.00%	102,494
1908	Hecla Mining Co.	Owner 100.00%	59,201
1909	Hecla Mining Co.	Owner 100.00%	108,505
1910	Hecla Mining Co.	Owner 100.00%	106,240
1911	Hecla Mining Co.	Owner 100.00%	109,497
1912	Hecla Mining Co.	Owner 100.00%	107,897
1913	Hecla Mining Co.	Owner 100.00%	105,926
1914	Hecla Mining Co.	Owner 100.00%	95,163
1915	Hecla Mining Co.	Owner 100.00%	120,282
1916	Hecla Mining Co.	Owner 100.00%	195,004
1917	Hecla Mining Co.	Owner 100.00%	307,200
1918	Hecla Mining Co.	Owner 100.00%	315,440
1919	Hecla Mining Co.	Owner 100.00%	182,554
1920	Hecla Mining Co.	Owner 100.00%	195,938
1921	Hecla Mining Co.	Owner 100.00%	226,384
1922	Hecla Mining Co.	Owner 100.00%	250,651
1923	Hecla Mining Co.	Owner 100.00%	145,441
1924	Hecla Mining Co.	Owner 100.00%	229,789
1925	Hecla Mining Co.	Owner 100.00%	292,068
1926	Hecla Mining Co.	Owner 100.00%	299,926
1927	Hecla Mining Co.	Owner 100.00%	268,085
1928	Hecla Mining Co.	Owner 100.00%	303,611
1929	Hecla Mining Co.	Owner 100.00%	255,505
1930	Hecla Mining Co.	Owner 100.00%	253,629
1931	Hecla Mining Co.	Owner 100.00%	194,320
1932	Hecla Mining Co.	Owner 100.00%	140,567
1933	Hecla Mining Co.	Owner 100.00%	142,012
1934	Hecla Mining Co.	Owner 100.00%	178,096
1935	Hecla Mining Co.	Owner 100.00%	202,563
1936	Hecla Mining Co.	Owner 100.00%	217,993
1937	Hecla Mining Co.	Owner 100.00%	250,635
1938	Hecla Mining Co.	Owner 100.00%	231,848
1939	Hecla Mining Co.	Owner 100.00%	209,241
1940	Hecla Mining Co.	Owner 100.00%	212,357
1941	Hecla Mining Co.	Owner 100.00%	211,944
1942	Hecla Mining Co.	Owner 100.00%	280,693
1943	Hecla Mining Co.	Owner 100.00%	140,400
1944	Hecla Mining Co.	Owner 100.00%	26,055

12/11/97

1945	Hecla Mining Co.	Owner	100.00%	512
1946	Hecla Mining Co.	Owner	100.00%	477
1947	Hecla Mining Co.	Owner	100.00%	579
1948	Hecla Mining Co.	Owner	100.00%	375
1949	Hecla Mining Co.	Owner	100.00%	278
1950	Hecla Mining Co.	Owner	100.00%	1,000
1951	Hecla Mining Co.	Owner	100.00%	298
1969	Hecla Mining Co.	Owner	100.00%	20

Total Short Tons of Mined Ore:			7,686,505
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Hecla Mining Co.	7,686,505	100.00%
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HECLA MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet M-3, pp. 1-2. Total short tons from this mine according to Mitchell and Bennett is 7,686,967 (p. 19), or 462 tons more than Jasberg's total. HRA is unable to account for the 462-ton difference between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1901-1969, Hecla Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1944, p. 360); Inspector of Mines, *Mining Industry in Idaho* (1920, p. 100; 1940, p. 203; 1945, p. 210; 1946, p. 208; 1947, p. 190; 1949, p. 191; 1950, p. 213; 1951, p. 83)

COMPANY-DEFENDANT RELATIONSHIPS

Hecla Mining Co. is a Defendant.

Draft Mine Production Report

Hercules Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1901	Hercules Mining Co.	Owner 100.00%	362
1902	Hercules Mining Co.	Owner 100.00%	4,998
1903	Hercules Mining Co.	Owner 100.00%	10,043
1904	Hercules Mining Co.	Owner 100.00%	12,271
1905	Hercules Mining Co.	Owner 100.00%	11,500
1906	Hercules Mining Co.	Owner 100.00%	59,176
1907	Hercules Mining Co.	Owner 100.00%	77,964
1908	Hercules Mining Co.	Owner 100.00%	94,115
1909	Hercules Mining Co.	Owner 100.00%	89,194
1910	Hercules Mining Co.	Owner 100.00%	95,635
1911	Hercules Mining Co.	Owner 100.00%	153,161
1912	Hercules Mining Co.	Owner 100.00%	185,226
1913	Hercules Mining Co.	Owner 100.00%	140,905
1914	Hercules Mining Co.	Owner 100.00%	204,364
1915	Hercules Mining Co.	Owner 100.00%	212,836
1916	Hercules Mining Co.	Owner 100.00%	289,285
1917	Hercules Mining Co.	Owner 100.00%	380,721
1918	Hercules Mining Co.	Owner 100.00%	255,323
1919	Hercules Mining Co.	Owner 100.00%	93,368
1920	Hercules Mining Co.	Owner 100.00%	276,490
1921	Hercules Mining Co.	Owner 100.00%	75,840
1922	Hercules Mining Co.	Owner 100.00%	88,357
1923	Hercules Mining Co.	Owner 100.00%	235,601
1924	Hercules Mining Co.	Owner 100.00%	215,256
1925	Hercules Mining Co.	Owner 100.00%	21,228
1928	Hercules Mining Co.	Owner 100.00%	2,680
1929	Hercules Mining Co.	Owner 100.00%	5,771
1931	Hercules Mining Co.	Owner 100.00%	90
1933	Hercules Mining Co.	Owner 100.00%	25
1934	Hercules Mining Co.	Owner 100.00%	34
1935	Hercules Mining Co.	Owner 100.00%	35
1937	Hercules Mining Co.	Owner 100.00%	52
1938	Hercules Mining Co.	Owner 100.00%	20
1941	Hercules Mining Co.	Owner 100.00%	29
1945	Hercules Mining Co.	Owner 100.00%	2,088
1946	Hercules Mining Co.	Owner 100.00%	8,022
1947	Day Mines, Inc.	Owner 100.00%	11,163
1948	Day Mines, Inc.	Owner 100.00%	4,492
1949	Day Mines, Inc.	Owner 100.00%	8,036
1950	Day Mines, Inc.	Owner 100.00%	17,084
1951	Day Mines, Inc.	Owner 100.00%	24,395
1952	Day Mines, Inc.	Owner 100.00%	32,152
1953	Day Mines, Inc.	Owner 100.00%	7,598
1954	Day Mines, Inc.	Owner 100.00%	16,257

12/11/97

1955	Day Mines, Inc.	Owner	100.00%	22,109
1956	Day Mines, Inc.	Owner	100.00%	18,004
1957	Day Mines, Inc.	Owner	100.00%	25,782
1958	Day Mines, Inc.	Owner	100.00%	12,272
1959	Day Mines, Inc.	Owner	100.00%	16,565
1960	Day Mines, Inc.	Owner	100.00%	1,008
1962	Day Mines, Inc.	Owner	100.00%	381
1964	Day Mines, Inc.	Owner	100.00%	104
1965	Day Mines, Inc.	Owner	100.00%	45

Total Short Tons of Mined Ore:			3,519,512
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Hercules Mining Co.	3,302,065	93.82%
Day Mines, Inc.	217,447	6.18%

HERCULES MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. P-1, pp. 9-11. Total figure of short tons from this mine according to Mitchell and Bennett is 3,519,592 (p. 19). HRA is unable to account for the difference between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1901-1946, Hercules Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1927, p. 209; 1929, p. 227; 1946, p. 208) and U. S. Geological Survey, *Mineral Resources of the United States* (1905, p. 240; 1916, p. 596).

1947-1965, Day Mines, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* 1951, p. 76) and U. S. Geological Survey, *Mineral Resources of the United States* (1950, p. 1498; 1952, p. 304; 1954, p. 377; 1957, p. 381; 1959, p. 329; 1960, p. 342; 1962, p. 360; 1964, p. 342).

COMPANY-DEFENDANT RELATIONSHIPS

Hercules Mining Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Production from this mine is included in Hecla Mining Co.'s share as current owner and successor in interest.

Draft Mine Production Report

Hummingbird Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1926	Hummingbird Mining Co.	Owner	100.00%	3,125
1927	Hummingbird Mining Co.	Owner	100.00%	3,123
1928	Hummingbird Mining Co.	Owner	100.00%	3,123
1929	Hummingbird Mining Co.	Owner	100.00%	3,123
1930	Hummingbird Mining Co.	Owner	100.00%	3,123
1931	Hummingbird Mining Co.	Owner	100.00%	3,123
Total Short Tons of Mined Ore:				18,740

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Hummingbird Mining Co.	18,740	100.00%
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HUMMINGBIRD MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett. Total short tons of mined ore and year-by-year production figures are from Jasberg's data, Sheet "Mines Grouped by Location," p. 2. Total figure of short tons from this mine according to Mitchell and Bennett is 18,740 (p. 20).

SOURCES OF OWNERS AND OPERATORS

1926-1931, Hummingbird Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1926, p. 198; 1929, pp. 228-229; 1931, p. 228).

Post-1931, Hercules Mining Co., owner. The Hercules Mining Co., which was described in 1927 as controlling the Hummingbird Mining Co., acquired the company's claims by 1937. See Inspector of Mines, *Mining Industry of Idaho* (1927, p. 210; 1937, p. 236).

COMPANY-DEFENDANT RELATIONSHIPS

Hercules Mining Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Production from this mine is included in Hecla Mining Co.'s share as current owner and successor in interest.

Draft Mine Production Report

Idora Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1907	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1908	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1909	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1910	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1911	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1912	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1913	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1914	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1915	Idora Mining Co., Ltd.	Owner	100.00% 132
1916	Idora Mining Co., Ltd.	Owner	100.00% 132
1917	Idora Mining Co., Ltd.	Owner	100.00% 132
1918	Idora Mining Co., Ltd.	Owner	100.00% 132
1919	Idora Mining Co., Ltd.	Owner	100.00% 133
1920	Idora Mining Co., Ltd.	Owner	100.00% 133
1921	Idora Mining Co., Ltd.	Owner	100.00% 133
1922	Idora Mining Co., Ltd.	Owner	100.00% 133
1923	Idora Mining Co., Ltd.	Owner	100.00% 133
1924	Idora Mining Co., Ltd.	Owner	100.00% 133
1925	Idora Mining Co., Ltd.	Owner	100.00% 133
1926	Idora Mining Co., Ltd.	Owner	100.00% 133
1927	Idora Mining Co., Ltd.	Owner	100.00% 133
1928	Idora Mining Co., Ltd.	Owner	100.00% 133
1929	Idora Mining Co., Ltd.	Owner	100.00% 133
1930	Idora Mining Co., Ltd.	Owner	100.00% 133
1931	Idora Mining Co., Ltd.	Owner	100.00% 133
1932	Idora Mining Co., Ltd.	Owner	100.00% 133
1933	Idora Mining Co., Ltd.	Owner	100.00% 133
1934	Idora Mining Co., Ltd.	Owner	100.00% 133
1935	Idora Mining Co., Ltd.	Owner	100.00% 133
1936	Idora Mining Co., Ltd.	Owner	100.00% 133
1937	Idora Mining Co., Ltd.	Owner	100.00% 133
1938	Idora Mining Co., Ltd.	Owner	100.00% 133
1939	Idora Mining Co., Ltd.	Owner	100.00% 133
1940	Idora Mining Co., Ltd.	Owner	100.00% 133
1941	Idora Mining Co., Ltd.	Owner	100.00% 133
1942	Idora Mining Co., Ltd.	Owner	100.00% 133
1943	Monitor Mining Co.	Owner	100.00% 133
1944	Monitor Mining Co.	Owner	100.00% 133
1945	Monitor Mining Co.	Owner	100.00% 133
1946	Monitor Mining Co.	Owner	100.00% 133
1947	Day Mines, Inc.	Owner	100.00% 133
1948	Day Mines, Inc.	Owner	100.00% 133
1949	Day Mines, Inc.	Owner	100.00% 133

Total Short Tons of Mined Ore:

5,707

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Idora Mining Co., Ltd.	3,720	65.18%
Idora Hill Mining Co., Ltd.	1,056	18.50%
Monitor Mining Co.	532	9.32%
Day Mines, Inc.	399	6.99%

IDORA MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet "Mines grouped by location code" I, p. 36. Year by year figures represent the total divided by the number of years of production. Mitchell and Bennett give the same total as Jasberg and list 1907-1949 as the years of production.

SOURCES OF OWNERS AND OPERATORS

1907-1914, Idora Hill Mining Co., owner. See Unpublished Annual Inspector Reports by Mine (1913 - Idora).

1915-1942, Idora Mining Co., Ltd., owner. See Unpublished Annual Inspector Reports by Mine (1915 - Idora; 1916 - Idora; 1923 - Idora; 1926 - Idora; 1942 - Idora).

1943-1946, Monitor Mining Co., owner. See Unpublished Annual Inspector Reports by Mine (1943 - Idora).

1947-1949, Day Mines, Inc., owner. See Unpublished Annual Inspector Reports by Mine (1948 - Interstate-Callahan). On acquisition, see Idaho Inspector of Mines, *Mining Industry of Idaho* (1951, p. 76).

COMPANY-DEFENDANT RELATIONSHIPS

Idora Hill Mining Co. changed its name to Idaho Mining Co., Ltd.

Idaho Mining Co., Ltd., merged with Monitor Mining Co. in 1943.

Monitor Mining Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Co., a Defendant, in 1981.

All production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Interstate/Callahan Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1906	Various Interstate-Callahan Mine Owners	Owner	100.00% 116
1907	Various Interstate-Callahan Mine Owners	Owner	100.00% 391
1908	Various Interstate-Callahan Mine Owners	Owner	100.00% 223
1909	Various Interstate-Callahan Mine Owners	Owner	100.00% 297
1910	Various Interstate-Callahan Mine Owners	Owner	100.00% 195
1913	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 43,663
1914	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 88,664
1915	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 109,451
1916	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 139,004
1917	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 144,661
1918	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 157,456
1919	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 54,135
1920	Callahan Zinc-Lead Co.	Owner	100.00% 129,833
1922	Callahan Zinc-Lead Co.	Owner	100.00% 20,516
1923	Callahan Zinc-Lead Co.	Owner	100.00% 114,179
1924	Callahan Zinc-Lead Co.	Owner	100.00% 24
1937	Callahan Zinc-Lead Co.	Owner	100.00% 16,950
1938	Callahan Zinc-Lead Co.	Owner	100.00% 3,900
1939	Callahan Zinc-Lead Co.	Owner	100.00% 3,200
1940	Callahan Zinc-Lead Co.	Owner	100.00% 17,616
	Interstate Lease	Operator	0.00% 0
1941	Callahan Zinc-Lead Co.	Owner	100.00% 46,000
1942	Callahan Zinc-Lead Co.	Owner	100.00% 46,870
1943	Callahan Zinc-Lead Co.	Owner	100.00% 25,100
1944	Callahan Zinc-Lead Co.	Owner	100.00% 8,230
1945	Monitor Mining Co.	Owner	100.00% 10,070
1946	Monitor Mining Co.	Owner	100.00% 3,859
1948	Day Mines, Inc.	Owner	100.00% 21,634
1949	Day Mines, Inc.	Owner	100.00% 16,672
1950	Day Mines, Inc.	Owner	50.00% 3,893
	Zanetti Bros.	Operator	50.00% 3,893
1951	Day Mines, Inc.	Owner	100.00% 7,185
1961	Day Mines, Inc.	Owner	100.00% 4,049
1962	Day Mines, Inc.	Owner	100.00% 56,000
1971	Day Mines, Inc.	Owner	100.00% 18,751
1972	Day Mines, Inc.	Owner	100.00% 20,259
1973	Day Mines, Inc.	Owner	100.00% 20,674
1974	Day Mines, Inc.	Owner	100.00% 22,118
1975	Day Mines, Inc.	Owner	100.00% 19,533
1976	Day Mines, Inc.	Owner	100.00% 21,027
1977	Day Mines, Inc.	Owner	100.00% 3,328

Total Short Tons of Mined Ore:	1,423,619
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Consolidated Callahan Interstate Mining Co.	737,034 51.77%
Callahan Zinc-Lead Co.	432,418 30.37%
Day Mines, Inc.	235,123 16.52%
Monitor Mining Co.	13,929 0.98%
Zanetti Bros.	3,893 0.27%
Various Interstate-Callahan Mine Owners	1,222 0.09%
Interstate Lease	0 0.00%

INTERSTATE/CALLAHAN MINE ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. M-12, pp. 1-3. Total figure of short tons from this mine according to Mitchell and Bennett is 1,423,619 (p. 11).

SOURCES OF OWNERS AND OPERATORS

1913-1919, Consolidated Callahan Interstate Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1912, p. 731; 1913, p. 780; 1916, p. 593; 1919, p. 575).

1920-1924, Callahan Zinc-Lead, owner. See Inspector of Mines, *Mining Industry of Idaho* (1920, p. 92; 1922, pp. 132-133; 1923, p. 146; 1924, p. 161). Also see Moody's Investors Service, *Industrial Manual* (title varies) (1957, p. 839).

1937-1944, Callahan Zinc-Lead, owner. See Inspector of Mines, *Mining Industry of Idaho* (1937, p. 227; 1938, p. 205; 1939, p. 258; 1940, p. 194; 1942, p. 136; 1944, pp. 162-163).

1945-1946, Monitor Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1945, p. 373) and Inspector of Mines, *Mining Industry of Idaho* (1946, p. 201).

1948-1949, Day Mines, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* (1948, pp. 192, 205; 1950, p. 205; 1951, p. 76).

1950, Day Mines, Inc., owner, and Zanetti Bros., operator. In this year the operator worked the mine in addition to dumps. See U. S. Geological Survey, *Mineral Resources of the United States* (1950, p. 1497).

1951, 1961-1962, 1971-1977, Day Mines, Inc., owner. U. S. Geological Survey, *Mineral Resources of the United States* (1951, p. 1497) and Inspector of Mines, *Mining Industry of Idaho* (1961, pp. 111-112; 1971, p. 80).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1940, HRA attributed all production to the owner because the operator could not be linked to defendants.

1950, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Consolidated Callahan Interstate Mining Co. was renamed Callahan Zinc-Lead Co. in 1920. When the company merged with Vulcan Silver-Lead Corp. in 1958, its name changed to Callahan Mining Corp. See Callahan Mining Corp., Annual Report (1958, p. 3). Callahan Mining Corp. is a subsidiary of Coeur d'Alene Mines Corp.

Coeur d'Alene Mines Corp. and Zanetti Bros. are defendants; see Complaint.

Monitor Mining Co. merged with Day Mines in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Various Interstate-Callahan Mine Owners (early period) production is included in the share of Hecla Mining Co. as current owner and successor in interest.

Draft Mine Production Report

Lucky Friday Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1938	Lucky Friday Mining Co.	Owner	100.00% 7
1942	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 5,250
1943	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 7,072
1944	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 4,581
1945	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 2,900
1946	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 3,375
1947	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 11,257
1948	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 8,146
1949	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 15,083
1950	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 14,971
1951	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 16,000
1952	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 23,390
1953	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 21,820
1954	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 31,653
1955	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 28,312
1956	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 41,457
1957	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 39,893
1958	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 55,176
1959	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 69,428
1960	Hecla Mining Co.	Operator	50.00% 66,862
	Lucky Friday Silver-Lead Mines Co.	Owner	50.00% 66,862
1961	Hecla Mining Co.	Operator	50.00% 64,430
	Lucky Friday Silver-Lead Mines Co.	Owner	50.00% 64,430
1962	Hecla Mining Co.	Operator	50.00% 90,567
	Lucky Friday Silver-Lead Mines Co.	Owner	50.00% 90,567
1963	Hecla Mining Co.	Operator	50.00% 91,169
	Lucky Friday Silver-Lead Mines Co.	Owner	50.00% 91,169
1964	Hecla Mining Co.	Owner	100.00% 182,704
1965	Hecla Mining Co.	Owner	100.00% 181,260
1966	Hecla Mining Co.	Owner	100.00% 179,716
1967	Hecla Mining Co.	Owner	100.00% 145,471
1968	Hecla Mining Co.	Owner	100.00% 95,923
1969	Hecla Mining Co.	Owner	100.00% 183,785
1970	Hecla Mining Co.	Owner	100.00% 200,448
1971	Hecla Mining Co.	Owner	100.00% 213,394
1972	Hecla Mining Co.	Owner	100.00% 192,020
1973	Hecla Mining Co.	Owner	100.00% 176,859
1974	Hecla Mining Co.	Owner	100.00% 165,695
1975	Hecla Mining Co.	Owner	100.00% 173,245
1976	Hecla Mining Co.	Owner	100.00% 186,520
1977	Hecla Mining Co.	Owner	100.00% 182,682
1978	Hecla Mining Co.	Owner	100.00% 156,863
1979	Hecla Mining Co.	Owner	100.00% 171,934
1980	Hecla Mining Co.	Owner	100.00% 184,410

12/11/97

Total Short Tons of Mined Ore:	3,998,754
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Hecla Mining Co.	3,285,956	82.17%
Lucky Friday Silver-Lead Mines Co.	712,791	17.83%
Lucky Friday Mining Co.	7	0.00%

12/11/97

LUCKY FRIDAY MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-1, pp. 8-9. Total short tons from this mine according to Mitchell and Bennett is 3,998, 747 (p. 17), or 7 tons less than Jasberg's total, probably because Mitchell and Bennett did not include 1938.

SOURCES OF OWNERS AND OPERATORS

1938, Lucky Friday Mining Co., owner. See "Developing the Lucky Friday", Reprinted from February 1948 Mining World (p.2-Lucky Friday Mine File)

1942-1959, Lucky Friday Silver-Lead Mines Co., owner. See Unpublished Annual Inspector Reports by Mine (1942 - 1945-Lucky Friday; 1948-Lucky Friday; 1949-Lucky Friday; 1953-Lucky Friday; 1954-Lucky Friday; 1956-Lucky Friday; 1957-Lucky Friday); Inspector of Mines, *Mining Industry of Idaho* (1958, p. 88; 1959, p. 83)

1960-1963, Lucky Friday Silver-Lead Mines Co., owner, and Hecla Mining Co., operator. See Unpublished Annual Inspector Reports by Mine (1960-Lucky Friday; 1961-Lucky Friday; 1962-Lucky Friday; 1963-Lucky Friday); U.S. Geological Survey, *Mineral Resources of the United States* (1960, p. 342; 1961, p. 343); Bureau of Mines 1961 Report (p.1-Lucky Friday Mine File)

1964-1980, Hecla Mining Co., owner. See Unpublished Annual Inspector Reports by Mine (1964-Lucky Friday; 1965-Lucky Friday)

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1960-1963, HRA divided production equally between the owner and the operator because both companies are linked to the same Defendant.

COMPANY-DEFENDANT RELATIONSHIPS

Hecla Mining Co. is a Defendant.

Lucky Friday Silver-Lead Mines Co. merged with Hecla Mining Co. in 1964 (Inspector of Mines, *Mining Industry in Idaho*-1965, p. 74).

Production of Lucky Friday Mining Co. is included in the share of Hecla Mining Co. as current owner and successor in interest.

Draft Mine Production Report

Marsh Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1908	Various Marsh Mine Owners	Owner	28
1911	Marsh Mining Co.	Owner	5,962
1912	Marsh Mining Co.	Owner	18,582
1913	Marsh Mining Co.	Owner	24,545
1914	Marsh Mining Co.	Owner	17,242
1915	Marsh Mining Co.	Owner	25,673
1916	Marsh Mines Consolidated Co.	Owner	14,308
1917	Marsh Mines Consolidated Co.	Owner	17,057
1918	Marsh Mines Consolidated Co.	Owner	3,020
1920	Marsh Mines Consolidated Co.	Owner	68
1922	Marsh Mines Consolidated Co.	Owner	61
1923	Marsh Mines Consolidated Co.	Owner	839
1924	Marsh Mines Consolidated Co.	Owner	1,092
1925	Marsh Mines Consolidated Co.	Owner	328
Total Short Tons of Mined Ore:			128,805

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Marsh Mining Co.	92,004	71.43%
Marsh Mines Consolidated Co.	36,773	28.55%
Various Marsh Mine Owners	28	0.02%

MARSH MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Jasberg's data, Sheet P-1, p. 32. Total short tons from this mine according to Mitchell and Bennett is 128,805 (p. 19).

SOURCES OF OWNERS AND OPERATORS

1908, Various Marsh Mine Owners. See U.S. Geological Survey, *Mineral Resources of the United States* (1908, p. 433).

1911-1915, Marsh Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1911, p. 600; 1912, p. 735)

1916-1925, Marsh Mines Consolidated Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1916, p. 597; 1918, p. n/a; 1921, p. 417); Inspector of Mines, *Mining Industry in Idaho* (1920, p. 105; 1922, p. 151; 1923, p. 166; 1924, p. 183; 1925, p. 207; 1930, p. 233)

COMPANY-DEFENDANT RELATIONSHIPS

Marsh Mining Co. and Marsh Mines Consolidated Co. are both linked to Hecla Mining Co., a Defendant, according to the Metsker Map for this area.

Production of Various Marsh Mine Owners is included in the share of Hecla Mining Co. as current owner and successor in interest.

Draft Mine Production Report

Morning Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1885	Various Morning Mine Owners	Owner	100.00% 115,765
1886	Various Morning Mine Owners	Owner	100.00% 115,765
1887	Various Morning Mine Owners	Owner	100.00% 115,765
1888	Various Morning Mine Owners	Owner	100.00% 115,766
1889	Various Morning Mine Owners	Owner	100.00% 115,766
1890	Various Morning Mine Owners	Owner	100.00% 115,766
1891	Various Morning Mine Owners	Owner	100.00% 115,766
1892	Various Morning Mine Owners	Owner	100.00% 115,766
1893	Various Morning Mine Owners	Owner	100.00% 115,766
1894	Various Morning Mine Owners	Owner	100.00% 115,766
1895	Various Morning Mine Owners	Owner	100.00% 115,766
1896	Various Morning Mine Owners	Owner	100.00% 115,766
1897	Various Morning Mine Owners	Owner	100.00% 115,766
1898	Larson/Greenough/Kilmer	Owner	100.00% 115,766
1899	Larson/Greenough/Kilmer	Owner	100.00% 115,766
1900	Larson/Greenough/Kilmer	Owner	100.00% 115,766
1901	Larson/Greenough/Kilmer	Owner	100.00% 179,170
1902	Larson/Greenough/Kilmer	Owner	100.00% 209,852
1903	Larson/Greenough/Kilmer	Owner	100.00% 236,410
1904	Larson/Greenough/Kilmer	Owner	100.00% 235,775
1905	Federal Mining & Smelting	Owner	100.00% 262,734
1906	Federal Mining & Smelting	Owner	100.00% 338,720
1907	Federal Mining & Smelting	Owner	100.00% 297,500
1908	Federal Mining & Smelting	Owner	100.00% 189,975
1909	Federal Mining & Smelting	Owner	100.00% 360,204
1910	Federal Mining & Smelting	Owner	100.00% 335,816
1911	Federal Mining & Smelting	Owner	100.00% 384,600
1912	Federal Mining & Smelting	Owner	100.00% 402,600
1913	Federal Mining & Smelting	Owner	100.00% 387,932
1914	Federal Mining & Smelting	Owner	100.00% 202,400
1915	Federal Mining & Smelting	Owner	100.00% 250,260
1916	Federal Mining & Smelting	Owner	100.00% 444,932
1917	Federal Mining & Smelting	Owner	100.00% 437,744
1918	Federal Mining & Smelting	Owner	100.00% 250,299
1919	Federal Mining & Smelting	Owner	100.00% 161,362
1920	Federal Mining & Smelting	Owner	100.00% 292,835
1921	Federal Mining & Smelting	Owner	100.00% 328,247
1922	Federal Mining & Smelting	Owner	100.00% 295,886
1923	Federal Mining & Smelting	Owner	100.00% 295,499
1924	Federal Mining & Smelting	Owner	100.00% 339,717
1925	Federal Mining & Smelting	Owner	100.00% 393,416
1926	Federal Mining & Smelting	Owner	100.00% 413,896
1927	Federal Mining & Smelting	Owner	100.00% 398,412
1928	Federal Mining & Smelting	Owner	100.00% 397,927

12/10/97

Page 1 of 3

1929	Federal Mining & Smelting	Owner	100.00%	386,210
1931	Federal Mining & Smelting	Owner	100.00%	232,485
1932	Federal Mining & Smelting	Owner	100.00%	102,407
1933	Federal Mining & Smelting	Owner	100.00%	197,257
1934	Federal Mining & Smelting	Owner	100.00%	220,037
1935	Federal Mining & Smelting	Owner	100.00%	298,568
1936	Federal Mining & Smelting	Owner	100.00%	314,772
1937	Federal Mining & Smelting	Owner	100.00%	351,742
1938	Federal Mining & Smelting	Owner	100.00%	262,950
1939	Federal Mining & Smelting	Owner	100.00%	377,723
1940	Federal Mining & Smelting	Owner	100.00%	336,960
1941	Federal Mining & Smelting	Owner	100.00%	271,137
1942	Federal Mining & Smelting	Owner	100.00%	236,902
1943	Federal Mining & Smelting	Owner	100.00%	234,667
1944	Federal Mining & Smelting	Owner	100.00%	276,769
1945	Federal Mining & Smelting	Owner	100.00%	250,311
1946	Federal Mining & Smelting	Owner	100.00%	145,497
1947	Federal Mining & Smelting	Owner	100.00%	108,729
1948	Federal Mining & Smelting	Owner	100.00%	77,061
1949	Federal Mining & Smelting	Owner	100.00%	87,853
1950	Federal Mining & Smelting	Owner	100.00%	108,189
1951	Federal Mining & Smelting	Owner	100.00%	88,817
1952	Federal Mining & Smelting	Owner	100.00%	83,104
1953	American Smelting and Refining Co.	Owner	100.00%	96,010
1954	American Smelting and Refining Co.	Owner	100.00%	49,468
1955	American Smelting and Refining Co.	Owner	100.00%	41,888
1956	American Smelting and Refining Co.	Owner	100.00%	45,995
1957	American Smelting and Refining Co.	Owner	100.00%	36,919
1958	American Smelting and Refining Co.	Owner	100.00%	10,864
1960	American Smelting and Refining Co.	Owner	100.00%	17
1961	Bunker Hill & S.M. & C. Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	120
1962	Bunker Hill & S.M. & C. Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	20,676
1963	Bunker Hill & S.M. & C. Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	53,551
1964	Bunker Hill & S.M. & C. Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	104,840
1965	Bunker Hill & S.M. & C. Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	128,089
1966	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	150,101
1967	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	121,534
1968	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	90,136
1969	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	87,166
1970	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	127,626
1971	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	163,178

1972	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	189,814
1973	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	201,174
1974	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	196,220
1975	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	194,770
1976	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	227,567
1977	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	226,727
1978	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	229,206
1979	Bunker Hill & S.M. & C. Co.	Operator	0.00%	0
	Hecla Mining Co.	Owner	100.00%	211,582

Total Short Tons of Mined Ore: 18,631,758

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Federal Mining & Smelting	12,913,060	69.31%
Hecla Mining Co.	2,724,077	14.62%
Various Morning Mine Owners	1,504,955	8.08%
Larson/Greenough/Kilmer	1,208,505	6.49%
American Smelting and Refining Co.	281,161	1.51%
Bunker Hill & S.M. & C. Co.	0	0.00%

MORNING MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-2, pp. 1-3. Total short tons from this mine according to Mitchell and Bennett is 18,631,754, or 4 tons less than Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1885-1904, various owners and Larson/Greenough/Kilmer, owners. These names were taken from Jasberg and have not yet been verified.

1905-1952, Federal Mining and Smelting, owner. For acquisition in 1905, see Shoshone County Clerk and Recorder, Deed Book 25, p. 527. Also see U.S. Geological Survey, *Mineral Resources of the United States*, 1920, 1940, 1950.

1953-1960, American Smelting and Refining Co., owner. For acquisition in 1953, see Shoshone County Clerk and Recorder, Deed Book 133, p. 287. Also see ASARCO annual report (1953, p. 3); Idaho Inspector of Mines, *Mining Industry of Idaho* (1960, p. 61).

1961-1979, Bunker Hill Co. and Hecla Mining Co., operators. For lease of property by Hecla and Bunker Hill-Hecla operating agreement, see Idaho Inspector of Mines, *Mining Industry of Idaho* (1962, pp. 70, 79; 1965, pp. 70, 74; 1966, p. 79). Note that the operating agreement involved a 70:30 split between Bunker Hill and Hecla. Note also that ASARCO still owned the Morning Mine property through 1965 and that it was mined as the Star-Morning Unit. For more on the Star-Morning Unit, see Star Mine Report Annotations, this report. ASARCO sold the property to Hecla in February 1966 (Idaho Inspector of Mines, *Mining Industry of Idaho*, 1966, p. 79).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

For 1961-1979, HRA attributed 100% of production from this mine to Hecla and 0% to Bunker Hill, because Hecla is a Defendant and Bunker Hill is not a Defendant nor has a relationship to any Defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Federal Mining & Smelting is a Defendant and a subsidiary of ASARCO, another Defendant. Production from this mine by Federal was included in ASARCO's share.

Bunker Hill S. M. & C. Co. is not a Defendant, no longer exists, and was not a subsidiary of any Defendant. Its production from this mine was included with Hecla's share, because Hecla was a joint operator during the entire period of Bunker Hill's involvement in the mine.

Various Morning Mine Owners' production (early period) is included in Hecla's share as current owner and successor in interest.

Larson/Greenough/Kilmer is not a Defendant and no longer exists. Its production from this mine is included in Hecla's share as current owner and successor in interest.

Hecla Mining Co. is a Defendant.

American Smelting and Refining Co. is a Defendant.

Draft Mine Production Report

Mountain Goat Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1955	Day Mines, Inc.	Owner	100.00%
	Zanetti and Kennedy	Operator	0.00%
1956	Day Mines, Inc.	Owner	100.00%
	Zanetti and Kennedy	Operator	0.00%
1957	Day Mines, Inc.	Owner	100.00%
	Zanetti and Kennedy	Operator	0.00%
1958	Day Mines, Inc.	Owner	100.00%
1959	Day Mines, Inc.	Owner	100.00%
1960	Day Mines, Inc.	Owner	100.00%
1961	Day Mines, Inc.	Owner	100.00%
1962	Day Mines, Inc.	Owner	100.00%
	Zanetti and Kennedy	Operator	0.00%
1963	Day Mines, Inc.	Owner	100.00%
	Zanetti and Kennedy	Operator	0.00%
1964	Day Mines, Inc.	Owner	100.00%
	Zanetti and Kennedy	Operator	0.00%
1965	Day Mines, Inc.	Owner	100.00%
1966	Day Mines, Inc.	Owner	100.00%
1967	Day Mines, Inc.	Owner	100.00%
1968	Day Mines, Inc.	Owner	100.00%
1969	Day Mines, Inc.	Owner	100.00%
1970	Day Mines, Inc.	Owner	100.00%
Total Short Tons of Mined Ore:			344,674

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Day Mines, Inc.	344,674 100.00%
Zanetti and Kennedy	0 0.00%

MOUNTAIN GOAT MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures and total short tons are from Jasberg's data, Sheet "Mines grouped by location." Year by year figures represent the total divided by the number of years of production. Total short tons from this mine according to Mitchell and Bennett matches Jasberg's figure.

SOURCES OF OWNERS AND OPERATORS

1955-1957, Day Mines, Inc., owner; Kennedy and Zanetti, operator. See U.S. Geological Survey, *Mineral Resources of the United States* (1955, p. 362; 1956, p. 384; 1957, p. 379).

1958-1961, Day Mines, Inc., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1958, p. 358; 310; 1960, p. 341)

1962-1964, Day Mines, Inc, owner; Kennedy and Zanetti, operator. See U.S. Geological Survey, *Mineral Resources of the United States* (1962, p. 358; 1963, p. 35; 1964, p. 341).

1965-1970, Day Mines, Inc., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1966, p. 271).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1955-1964, HRA attributed all production to owner because operators could not be linked to Defendants. Note that lease involved Herb Zanetti, not William and Bromo Zanetti of Zanetti Brothers.

COMPANY-DEFENDANT RELATIONSHIPS

Day Mines, Inc. merged with Hecla Mining Co., a Defendant, in 1981.

All production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

National Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1914	National Copper Mining Co., Ltd.	Owner	100.00%	18,888
1915	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1916	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1917	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1918	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1919	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1920	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1921	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1922	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
Total Short Tons of Mined Ore:				170,008

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
National Copper Mining Co., Ltd.	170,008	100.00%

NATIONAL MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett. Total short tons of mined ore and year-by-year production figures are from Jasberg's data, Sheet "Mines Grouped by Location," p. 1. Total figure of short tons from this mine according to Mitchell and Bennett is 170,008 (p. 18).

SOURCES OF OWNERS AND OPERATORS

1914-1922, National Copper Mining Co., Ltd., owner. See Unpublished Annual Inspector Reports by Mine (National Mine, aka Copper King, 1915).

Post-1922, King Mining Co., owner. National Copper Mining Co., Ltd., sold its mine in 1943 to King Mining Co. See Inspector of Mines, *Mining Industry of Idaho* (1944, p. 175).

COMPANY-DEFENDANT RELATIONSHIPS

King Mining Co. merged with Day Mines, Inc. in 1947. See Inspector of Mines, *Mining Industry of Idaho* (1951, pp. 76, 78).

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Production from this mine is included in Hecla Mining Co.'s share as current owner and successor in interest.

Draft Mine Production Report

Nepsic Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role		Short Tons of Mined Ore
1943	Monitor Mining Co.	Owner	100.00%	2,095
1944	Daylight Lease	Operator	0.00%	0
	Monitor Mining Co.	Owner	100.00%	2,095
1945	Daylight Lease	Operator	0.00%	0
	Monitor Mining Co.	Owner	100.00%	2,095
1946	Daylight Lease	Operator	0.00%	0
	Monitor Mining Co.	Owner	100.00%	2,095
1947	Day Mines, Inc.	Owner	100.00%	2,095
Total Short Tons of Mined Ore:				10,475

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
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Monitor Mining Co.	8,380	80.00%
Day Mines, Inc.	2,095	20.00%
Daylight Lease	0	0.00%

NEPSIC MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett. Total short tons of mined ore and year-by-year production figures are from Jasberg's data, Sheet "Mines Grouped by Location," p. 4. Total figure of short tons from this mine according to Mitchell and Bennett is 10,475 (p. 11).

SOURCES OF OWNERS AND OPERATORS

1943, Monitor Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1943, p. 208).

1944-1946, Monitor Mining Co., owner, and Daylight Lease, operator. See U. S. Geological Survey, *Mineral Resources of the United States* (1944, p. 357; 1945, p. 373; 1946, p. 1443).

1947, Day Mines, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* (1951, p. 76).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1944-1946, HRA attributed all production to the owner because the operator could not be linked to defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Monitor Mining Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Production from this mine is included in Hecla Mining Co.'s share as current owner and successor in interest.

Draft Mine Production Report

Polaris Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Polaris Development & Mining Co.	Owner	100.00% 11,457
1917	Polaris Development & Mining Co.	Owner	100.00% 11,457
1918	Polaris Development & Mining Co.	Owner	100.00% 11,457
1919	Polaris Development & Mining Co.	Owner	100.00% 11,457
1920	Polaris Development & Mining Co.	Owner	100.00% 11,457
1921	Polaris Development & Mining Co.	Owner	100.00% 11,457
1922	Polaris Development & Mining Co.	Owner	100.00% 11,457
1923	Polaris Development & Mining Co.	Owner	100.00% 11,457
1924	Polaris Development & Mining Co.	Owner	100.00% 11,457
1925	Polaris Development & Mining Co.	Owner	100.00% 11,457
1926	Polaris Development & Mining Co.	Owner	100.00% 11,457
1927	Polaris Development & Mining Co.	Owner	100.00% 11,457
1928	Polaris Development & Mining Co.	Owner	100.00% 11,457
1929	Polaris Development & Mining Co.	Owner	100.00% 11,457
1930	Polaris Development & Mining Co.	Owner	100.00% 11,457
1931	Polaris Development & Mining Co.	Owner	100.00% 11,456
1932	Polaris Development & Mining Co.	Owner	100.00% 11,456
1933	Polaris Development & Mining Co.	Owner	100.00% 11,456
1934	Polaris Development & Mining Co.	Owner	100.00% 11,456
1935	Polaris Development & Mining Co.	Owner	100.00% 11,456
1936	Polaris Development & Mining Co.	Owner	100.00% 11,456
1937	Polaris Mining Co.	Owner	100.00% 11,456
1938	Polaris Mining Co.	Owner	100.00% 11,456
1939	Polaris Mining Co.	Owner	100.00% 11,456
1940	Polaris Mining Co.	Owner	100.00% 11,456
1941	Polaris Mining Co.	Owner	100.00% 11,456
1942	Polaris Mining Co.	Owner	100.00% 11,456
1943	Polaris Mining Co.	Owner	100.00% 11,456
Total Short Tons of Mined Ore:			320,783

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Polaris Development & Mining Co.	240,591	75.00%
Polaris Mining Co.	80,192	25.00%

POLARIS MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent the total tonnage of mined ore divided by the number of years of production. In this instance, all figures were derived from Mitchell and Bennett (p. 15). Pete Jasberg did not include production from the Polaris Mine in his data

SOURCES OF OWNERS AND OPERATORS

1916-1936, Polaris Development & Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1924, p. 189; 1930, p. 250; 1936, p. 263) and U. S. Geological Survey, *Mineral Resources of the United States* (1916, p. 594).

1937-1943, Polaris Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1937, p. 247; 1938, p. 224; 1940, p. 213; 1943, p. 210).

COMPANY-DEFENDANT RELATIONSHIPS

Polaris Development & Mining Co.'s affairs were taken over by Polaris Mining Co. in 1937.

Polaris Mining Co. merged with the Hecla Mining Co. in 1958.

Production from this mine is included in Hecla Mining Co.'s share as current owner and successor in interest

Draft Mine Production Report

Rainbow Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1957	Polaris Mining Co.	Operator	50.00%
	Rainbow Mining and Milling Co.	Owner	50.00%
1958	Hecla Mining Co.	Operator	50.00%
	Rainbow Mining and Milling Co.	Owner	50.00%
Total Short Tons of Mined Ore:			25,182

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Rainbow Mining and Milling Co.	12,591	50.00%
Polaris Mining Co.	8,798	34.94%
Hecla Mining Co.	3,793	15.06%

RAINBOW MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. P-11, pp. 2-3. Total figure of short tons from this mine according to Mitchell and Bennett is 7,582 (p. 15). Mitchell and Bennett reported 1958 as the only year of production.

SOURCES OF OWNERS AND OPERATORS

1957, Rainbow Mining and Milling Co., owner, and Polaris Mining Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1957, p. 129).

1958, Rainbow Mining and Milling Co., owner, and Hecla Mining Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1958, p. 91).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1957-1958, HRA divided production equally between the owner and operators because the companies are linked to two different defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Rainbow Mining and Milling Co. merged with Coeur d'Alene Mines Corp. as the surviving company. See Inspector of Mines, *Mining Industry of Idaho* (1968, p. 125).

Coeur d'Alene Mines Corp. is a defendant.

Polaris Mining Co. merged with Hecla Mining Co. in 1958. See Inspector of Mines, *Mining Industry of Idaho* (1958, p. 90).

Hecla Mining Co. is a defendant.

Draft Mine Production Report

Ray Jefferson Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Various Ray Jefferson Mine Owners	Owner 100.00%	130
Total Short Tons of Mined Ore:			130

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Various Ray Jefferson Mine Owners	130	100.00%
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12/11/97

RAY JEFFERSON MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

The one-year figure and total short tons of mined ore figure are from Jasberg's data, Sheet "Mines Grouped by Location," p. 5. Total figure of short tons from this mine according to Mitchell and Bennett is 130 (p. 11).

SOURCES OF OWNERS AND OPERATORS

1916, Various Ray Jefferson Mine Owners. See Inspector of Mines, *Mining Industry of Idaho* (1916, pp. 23-24). See U. S. Geological Survey, *Mineral Resources of the United States* (1916, p. 594).

Post-1916, Monitor Mining Co., owner. The Monitor Mining Co. purchased the Ray Jefferson Mine by 1947, the date of its merger with Day Mines. See Inspector of Mines, *Mining Industry of Idaho* (1951, p. 76).

COMPANY-DEFENDANT RELATIONSHIPS

Various Ray Jefferson Mine Owners (early period) production is included in the share of Hecla Mining Co. as current owner and successor in interest.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Draft Mine Production Report

Rex Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1905	Rex Mining Co.	Owner	3,408
1906	Rex Mining Co.	Owner	7,255
1908	Rex Mining Co.	Owner	2,984
1910	Rex Mining Co.	Owner	5,440
1911	Rex Mining Co.	Owner	8,204
1912	Rex Mining Co.	Owner	34
1913	Rex Mining Co.	Owner	11,868
1916	Rex Consolidated Mining Co.	Owner	5,971
1917	Rex Consolidated Mining Co.	Owner	32,116
1918	Rex Consolidated Mining Co.	Owner	1,211
1919	Rex Consolidated Mining Co.	Owner	106
1920	Rex Consolidated Mining Co.	Owner	203
1921	Rex Consolidated Mining Co.	Owner	53
1922	Rex Consolidated Mining Co.	Owner	16
1923	Rex Consolidated Mining Co.	Owner	29
1925	Rex Consolidated Mining Co.	Owner	237
1926	Delaware Mines Corp.	Owner	52
1927	Delaware Mines Corp.	Owner	299
1928	Delaware Mines Corp.	Owner	390
1929	Delaware Mines Corp.	Owner	225
1930	Delaware Mines Corp.	Owner	98
1942	Callahan Consolidated Mines Co.	Operator	65
	Delaware Mines Corp.	Owner	65
1943	Callahan Consolidated Mines Co.	Operator	5,910
	Delaware Mines Corp.	Owner	5,910
1944	Callahan Consolidated Mines Co.	Owner	21,439
1945	Callahan Consolidated Mines Co.	Owner	25,308
1946	Callahan Consolidated Mines Co.	Owner	15,768
1949	Day Mines, Inc.	Owner	34,350
Total Short Tons of Mined Ore:			189,014

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Callahan Consolidated Mines Co.	68,490	36.24%
Rex Consolidated Mining Co.	39,942	21.13%
Rex Mining Co.	39,193	20.74%
Day Mines, Inc.	34,350	18.17%
Delaware Mines Corp.	7,039	3.72%

REX MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. P-1, pp. 31-32. Total figure of short tons from this mine according to Mitchell and Bennett is 154,551 (p. 11). HRA is unable to account for the difference between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1905-1913, Rex Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1905, p. 241; 1906, p. 264; 1908, p. 433; 1910, p. 467; 1911, p. 600; 1912, p. 735; 1913 p. 785).

1916-1925, Rex Consolidated Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1915, p. 556; 1916, p. 598; 1918); Inspector of Mines, *Mining Industry of Idaho* (1920, p. 110; 1922, p. 158; 1923, pp. 172-173; 1924, p. 190).

1926-1930, Delaware Mines Corp., owner. See Inspector of Mines, *Mining Industry of Idaho* (1926, p. 186; 1927, p. 199; 1928, p. 192; 1929, p. 215; 1930, p. 221); Mines Information Bureau, *The Mines Handbook* (1931, p. 958).

1942-1943, Delaware Mines Corp., owner, and Callahan Consolidated Mines Co., operator. See Inspector of Mines, *Mining Industry of Idaho* (1940, pp. 194, 198; 1941, p. 210); U. S. Geological Survey's *Mineral Resources of the United States* (1943, p. 378).

1944-1946, Callahan Consolidated Mines Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1944, p. 162; 1945, p. 202; 1946, p. 201).

1949, Day Mines, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* (1948, p. 189; 1951, pp. 73, 76).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1942-1943, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Callahan Consolidated Mines Co. is a defendant; see Complaint.

Production of Rex Consolidated Mining Co., Rex Mining Co., and Delaware Mines, Inc. is included in the share of Hecla Mining Co. as current owner and successor in interest.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Draft Mine Production Report

Sherman Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1927	Sherman Lead Co.	Owner 100.00%	1,965
1928	Sherman Lead Co.	Owner 100.00%	37,365
1929	Sherman Lead Co.	Owner 100.00%	49,633
1930	Sherman Lead Co.	Owner 100.00%	29,847
1931	Sherman Lead Co.	Owner 100.00%	7,633
1937	Sherman Lead Co.	Owner 100.00%	20,981
1938	Sherman Lead Co.	Owner 100.00%	13,118
1939	Sherman Lead Co.	Owner 100.00%	3,996
1940	Sherman Lead Co.	Owner 100.00%	21,122
1941	Sherman Lead Co.	Owner 100.00%	52,066
1942	Sherman Lead Co.	Owner 100.00%	69,804
1943	Sherman Lead Co.	Owner 100.00%	56,217
1944	Sherman Lead Co.	Owner 100.00%	31,731
1945	Sherman Lead Co.	Owner 100.00%	26,627
1946	Sherman Lead Co.	Owner 100.00%	18,875
1947	Day Mines, Inc.	Owner 100.00%	33,678
1948	Day Mines, Inc.	Owner 100.00%	54,535
1949	Day Mines, Inc.	Owner 100.00%	55,647
1950	Day Mines, Inc.	Owner 100.00%	50,986
1951	Day Mines, Inc.	Owner 100.00%	9,517
1952	Day Mines, Inc.	Owner 100.00%	7,361
1953	Day Mines, Inc.	Owner 100.00%	4,792
1954	Day Mines, Inc.	Owner 100.00%	1,089
1955	Day Mines, Inc.	Owner 100.00%	326
1956	Day Mines, Inc.	Owner 100.00%	710
1957	Day Mines, Inc.	Owner 100.00%	137
1958	Day Mines, Inc.	Owner 100.00%	256
1959	Day Mines, Inc.	Owner 100.00%	29
1960	Day Mines, Inc.	Owner 100.00%	31
1963	Day Mines, Inc.	Owner 100.00%	89
1964	Day Mines, Inc.	Owner 100.00%	53
1965	Day Mines, Inc.	Owner 100.00%	328
1966	Day Mines, Inc.	Owner 100.00%	323
1967	Day Mines, Inc.	Owner 100.00%	156
1969	Day Mines, Inc.	Owner 100.00%	10
1970	Day Mines, Inc.	Owner 100.00%	38
Total Short Tons of Mined Ore:			661,071

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Sherman Lead Co.	440,980	66.71%
Day Mines, Inc.	220,091	33.29%

SHERMAN MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-1, pp. 26-27. Total short tons from this mine according to Mitchell and Bennett matches Jasberg's figure.

SOURCES OF OWNERS AND OPERATORS

1927-1946, Sherman Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1927, pp. 210, 226; 1930, p. 253; 1937-1938).

1947-1970, Day Mines, Inc., owner. On acquisition, see Idaho Inspector of Mines, *Mining Industry of Idaho*, 1948, which states Sherman Lead Co. consolidated with Day Mines, Inc. by October 1, 1947. See also U.S. Geological Survey, *Mineral Resources of the United States* (1948-1952; 1953, p. 388; 1954, p. 377; 1955, p. 364; 1956, p. 386; 1957, p. 122; 1958, p. 83; 1963, p. 356; 1964, p. 342; 1965, p. 277). Note numerous lessees mentioned, 1953-1965.

COMPANY-DEFENDANT RELATIONSHIPS

Sherman Lead Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Company, a Defendant, in 1981.

Production from this mine is included in Hecla Mining Company's share as current owner and successor in interest.

Draft Mine Production Report

Silver Summit Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1948	Polaris Mining Co.	Operator	50.00% 2,774
	Silver Summit Mining Co.	Owner	50.00% 2,774
1949	Polaris Mining Co.	Operator	50.00% 3,420
	Silver Summit Mining Co.	Owner	50.00% 3,420
1950	Polaris Mining Co.	Operator	50.00% 24,946
	Silver Summit Mining Co.	Owner	50.00% 24,946
1951	Polaris Mining Co.	Operator	50.00% 26,325
	Silver Summit Mining Co.	Owner	50.00% 26,325
1952	Polaris Mining Co.	Operator	50.00% 45,549
	Silver Summit Mining Co.	Owner	50.00% 45,549
1953	Polaris Mining Co.	Owner	100.00% 49,483
1954	Polaris Mining Co.	Owner	100.00% 56,982
1955	Polaris Mining Co.	Owner	100.00% 64,371
1956	Polaris Mining Co.	Owner	100.00% 50,806
1957	Polaris Mining Co.	Owner	100.00% 50,304
1958	Polaris Mining Co.	Owner	100.00% 48,393
1959	Hecla Mining Co.	Owner	100.00% 29,422
1960	Hecla Mining Co.	Owner	100.00% 27,133
1961	Hecla Mining Co.	Owner	100.00% 27,547
1962	Hecla Mining Co.	Owner	100.00% 24,607
1963	Hecla Mining Co.	Owner	100.00% 20,048
1964	Hecla Mining Co.	Owner	100.00% 16,321
1965	Hecla Mining Co.	Owner	100.00% 34,764
1966	Hecla Mining Co.	Owner	100.00% 39,583
1967	Hecla Mining Co.	Owner	100.00% 26,869
1968	Hecla Mining Co.	Owner	100.00% 21,932
1969	Hecla Mining Co.	Owner	100.00% 4,175
Total Short Tons of Mined Ore:			798,765

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Polaris Mining Co.	423,352	53.00%
Hecla Mining Co.	272,401	34.10%
Silver Summit Mining Co.	103,013	12.90%

SILVER SUMMIT MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-1, pp. 22-23. Total short tons from this mine according to Mitchell and Bennett is 798,761 tons, or four tons less than Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1948-1952, Silver Summit Mining Co., owner; Polaris Mining Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1948, p. 211; 1949, p. 200; 1950, p. 222; 1952, p. 132).

1953-1958, Polaris Mining Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1953, p. 165).

1959-1969, Hecla Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1959, p. 329).

COMPANY-DEFENDANT RELATIONSHIPS

Silver Summit Mining Co. merged with Polaris Mining Co. in 1952.

Polaris Mining Co. merged with Hecla Mining Co., a Defendant, on October 31, 1958.

All production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Silver Tip Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1941	Various Silver Tip Mine Owners	Owner	100.00%
1942	Various Silver Tip Mine Owners	Owner	100.00%
1943	Monitor Mining Co.	Owner	100.00%
1944	Monitor Mining Co.	Owner	100.00%
1945	Monitor Mining Co.	Owner	100.00%
1946	Monitor Mining Co.	Owner	100.00%
1947	Day Mines, Inc.	Owner	100.00%
1948	Day Mines, Inc.	Owner	100.00%
1949	Day Mines, Inc.	Owner	100.00%
1950	Day Mines, Inc.	Owner	100.00%
1951	Day Mines, Inc.	Owner	100.00%
1952	Day Mines, Inc.	Owner	100.00%
1953	Day Mines, Inc.	Owner	100.00%
1954	Day Mines, Inc.	Owner	100.00%
1955	Day Mines, Inc.	Owner	100.00%
1956	Day Mines, Inc.	Owner	100.00%
1957	Day Mines, Inc.	Owner	100.00%
1958	Day Mines, Inc.	Owner	100.00%
1959	Day Mines, Inc.	Owner	100.00%
Total Short Tons of Mined Ore:			30,255

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Day Mines, Inc.	20,703 68.43%
Monitor Mining Co.	6,368 21.05%
Various Silver Tip Mine Owners	3,184 10.52%

SILVER TIP MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-1, p. 34. Figures for each year represent the total divided by the number of years of production. Mitchell and Bennett give the same total as Jasberg.

SOURCES OF OWNERS AND OPERATORS

1943-1946, Monitor Mining Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1943).

1947-1959, Day Mines, Inc., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1951, p. 76).

COMPANY-DEFENDANT RELATIONSHIPS

Monitor Mining Co. merged into Day Mines, Inc. in 1947.

Day Mines, Inc. merged into Hecla Mining Co. in 1981.

All production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Snowstorm Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1901	Snowstorm Mining Co.	Owner 100.00%	1,500
1904	Snowstorm Mining Co.	Owner 100.00%	17,805
1905	Snowstorm Mining Co.	Owner 100.00%	65,500
1906	Snowstorm Mining Co.	Owner 100.00%	83,916
1907	Snowstorm Mining Co.	Owner 100.00%	95,435
1908	Snowstorm Mining Co.	Owner 100.00%	103,062
1909	Snowstorm Mining Co.	Owner 100.00%	96,099
1910	Snowstorm Mining Co.	Owner 100.00%	62,653
1911	Snowstorm Mining Co.	Owner 100.00%	26,202
1912	Snowstorm Mining Co.	Owner 100.00%	71,992
1913	Snowstorm Mining Co.	Owner 100.00%	105,674
1914	Snowstorm Mining Co.	Owner 100.00%	63,026
1915	Snowstorm Mining Co.	Owner 100.00%	14,499
1917	Snowstorm Mines Consolidated	Owner 100.00%	184
1925	Snowstorm Silver Lead Co.	Owner 100.00%	899
1926	Oregon-Idaho Mining and Concentrating Co	Operator 0.00%	0
	Snowstorm Leasing Co.	Operator 0.00%	0
	Snowstorm Silver Lead Co.	Owner 100.00%	9,027
1927	Oregon-Idaho Mining and Concentrating Co	Operator 0.00%	0
	Snowstorm Leasing Co.	Operator 0.00%	0
	Snowstorm Silver Lead Co.	Owner 100.00%	9,060
1928	Roberts Coeur d'Alene Mining and Milling	Operator 0.00%	0
	Snowstorm Leasing Co.	Operator 0.00%	0
	Snowstorm Silver Lead Co.	Owner 100.00%	21
1943	Various Snowstorm Mine Owners	Owner 100.00%	26
Total Short Tons of Mined Ore:			826,580

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Snowstorm Mining Co.	807,363	97.68%
Snowstorm Silver Lead Co.	19,007	2.30%
Snowstorm Mines Consolidated	184	0.02%
Various Snowstorm Mine Owners	26	0.00%
Snowstorm Leasing Co.	0	0.00%
Roberts Coeur d'Alene Mining and Milling Co.	0	0.00%
Oregon-Idaho Mining and Concentrating Co.	0	0.00%

SNOWSTORM MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-1, pp. 20-22. Total short tons from this mine according to Mitchell and Bennett matches Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1901-1915, Snowstorm Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1905, p. 240; 1906, p. 264; 1907, p. 308; 1908, p. 434; 1909, p. 353; 1910, p. 466; 1911, p. 599; 1912, p. 733; 1915, p. 553).

1917, Snowstorm Mines Consolidated, owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1922, p. 162).

1925, Snowstorm Silver Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1925, p. 219).

1926-1927, Snowstorm Silver Lead Co., owner; Snowstorm Leasing Co., operator; Oregon-Idaho Mining and Concentrating Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1926, p. 216; 1927, p. 229); U.S. Geological Survey, *Mineral Resources of the United States* (1926, p. 446). Note that Snowstorm Leasing Co. subleased to Oregon-Idaho Mining and Concentrating Co.

1928, Snowstorm Silver Lead Co., owner; Snowstorm Leasing Co., operator; Roberts Coeur d'Alene Mining and Milling Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1928, p. 221). Note that Snowstorm Leasing Co. subleased to Roberts Coeur d'Alene Mining and Milling Co.

1943, various Snowstorm owners. HRA found no information.

Note: Hecla Mining Co. acquired the Snowstorm Mine by about 1964. A comparison of the Hobbs map (Pottsville area) which identifies the location of the Snowstorm Mine, and the Metsker map for T48N,R6E (sections 19,29 and 30) which identifies ownership of claims in the area of the Snowstorm Mine, indicates that Hecla (and its subsidiary, Lucky Friday) owned the claims comprising the Snowstorm Mine.

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1926-1928, HRA attributed all production to owner because operators could not be linked to Defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Snowstorm Mining Co., Snowstorm Silver Lead Co., Snowstorm Mines Consolidated, Snowstorm Leasing Co., Oregon-Idaho Mining and Concentrating Co., and Roberts Coeur d'Alene Mining and Milling Co. no longer exist.

Hecla Mining Co. appears to have acquired the property by 1964 (see note above).

All production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Stanley Mine

Drainage: Mines Not Plotted

Year	Owner / Operator	Role	Short Tons of Mined Ore
1906	Stanley Consolidated Mining and Milling Co	Owner	53
1907	Stanley Consolidated Mining and Milling Co	Owner	53
1908	Stanley Consolidated Mining and Milling Co	Owner	53
1909	Stanley Consolidated Mining and Milling Co	Owner	52
1910	Stanley Consolidated Mining and Milling Co	Owner	52
1911	Stanley Consolidated Mining and Milling Co	Owner	52
1912	Stanley Consolidated Mining and Milling Co	Owner	52
1913	Stanley Consolidated Mining and Milling Co	Owner	52
1914	Stanley Consolidated Mining and Milling Co	Owner	52
1915	Stanley Consolidated Mining and Milling Co	Owner	52
1916	Stanley Consolidated Mining and Milling Co	Owner	52
1917	Stanley Consolidated Mining and Milling Co	Owner	52
1918	Stanley Consolidated Mining and Milling Co	Owner	52
1919	Stanley Consolidated Mining and Milling Co	Owner	52
1920	Stanley Consolidated Mining and Milling Co	Owner	52
1921	Stanley Consolidated Mining and Milling Co	Owner	52
1922	Stanley Consolidated Mining and Milling Co	Owner	52
1923	Stanley Consolidated Mining and Milling Co	Owner	52
1924	Stanley Consolidated Mining and Milling Co	Owner	52
1925	Stanley Consolidated Mining and Milling Co	Owner	52
1926	Stanley Mining Co.	Owner	52
1927	Stanley Mining Co.	Owner	52
1928	Stanley Mining Co.	Owner	52
1929	Stanley Mining Co.	Owner	52
1930	Stanley Mining Co.	Owner	52
1931	Stanley Mining Co.	Owner	52
1941	Stanley Mining Co.	Owner	52
1942	Stanley Mining Co.	Owner	52

Total Short Tons of Mined Ore: 1,459

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Stanley Consolidated Mining and Milling Co.	1,043	71.49%
Stanley Mining Co.	416	28.51%

STANLEY MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total production figure is from Pete Jasberg's data, Sheet "Mines grouped by location code" I, p. 4. Year by year figures represent the total divided by the number of years of production. Note that Stanley Mine was "idle" 1932-1940. Mitchell and Bennett give the same total as Jasberg and list 1906-1942 as the years of production.

SOURCES OF OWNERS AND OPERATORS

1906-1925, Stanley Consolidated Mining and Milling Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1926, p. 217); Moody's Investors Service, *Industrial Manual* (title varies) 1931, p. 1115.

1926-1942, Stanley Mining Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1926, p. 217); Moody's Investors Service, *Industrial Manual* (title varies) 1931, p. 1115.

COMPANY-DEFENDANT RELATIONSHIPS

Stanley Consolidated Mining and Milling Co. changed its name to Stanley Mining Co.

Stanley Mining Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Co., a Defendant, in 1981.

All production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Star Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore	
1925	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	29,680
1926	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	119,822
1927	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	36,816
1928	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	4,484
1929	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	114,034
1930	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	33,602
1931	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	2,662
1932	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	7,500
1933	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	11,780
1935	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	11,910
1936	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	116,520
1937	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	87,610
1938	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	42,016
1939	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	48,860
1940	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	210,464
1941	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	212,420
1942	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	242,900
1943	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	238,510
1944	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	195,562
1945	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	145,528
1946	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	131,912
1947	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	193,914

12/11/97

1948	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	237,098
1949	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	230,242
1950	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	267,260
1951	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	265,724
1952	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	234,820
1953	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	227,650
1954	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	216,878
1955	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	208,188
1956	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	189,821
1957	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	199,020
1958	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	184,552
1959	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	218,329
1960	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Operator	100.00%	245,326
1961	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	252,361
1962	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	218,674
1963	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	199,962
1964	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	140,548
1965	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	112,108
1966	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	96,211
1967	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	106,487
1968	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	99,801
1969	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	70,169
1970	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	87,919
1971	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	82,876
1972	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	73,781
1973	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	64,607

1974	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	85,360
1975	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	87,391
1976	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	54,476
1977	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	66,739
1978	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	61,014
1979	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	72,531
1980	Bunker Hill Co.	Owner	0.00%	0
	Hecla Mining Co.	Owner	100.00%	76,296
Total Short Tons of Mined Ore:				7,272,725

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Hecla Mining Co.	7,272,725	100.00%
Bunker Hill Co.	0	0.00%

STAR MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-1, pp. 4-6. Total short tons from this mine according to Mitchell and Bennett is 7,259,687, or 13,038 tons less than Jasberg's total. HRA is unable to account for the difference.

SOURCES OF OWNERS AND OPERATORS

1925-1955, Bunker Hill Co., owner; Hecla Mining Co., owner. The basis for this joint ownership of the Star Mine is reported in Idaho Inspector of Mines, *Mining Industry of Idaho* (1925, pp. 220-221): "In 1916 the Bunker Hill & Sullivan M. & C. Co. secured an option on the Star mine from the Star Mining Co., as the most feasible method of opening this mine was through the Hecla mine, the Hecla Mining Co. was offered and accepted a 50 percent interest in the option.

"The Sullivan Mining Co. was then formed to take over the Star option and to operate the mine. After litigation to perfect title to the Star vein system was settled in favor of the Star Mining Co., the Star crosscut was started and continued without interruption, excepting the time lost from July 13, 1923, to March 1, 1924, as a result of the Burke fire.

"On November 13, the Star ore body was encountered at a point 1650 feet west of the east end line, and at a depth of 4000 feet below the apex of the vein. After encountering the ore body development work continued, and during 1925 it was opened the entire distance of 1650 ft. and a connection was made with the 2250 level of the Morning mine of the Federal Mining & Smelting Co."

1956-1960, Bunker Hill Co., owner; Hecla Mining Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1957, 1961, p. 114). The latter notes: "Hecla operated the Star Mine and Mill, which is owned wholly by Bunker Hill Co., under an operating agreement on a fee basis."

1961-1980, Bunker Hill Co., owner; Hecla Mining Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1962, p. 79): "As a result of an agreement effective July 1, 1961, between Hecla and The Bunker Hill Company, Hecla now owns 30% interest in the Star mine located at Burke, Idaho, and The Bunker Hill Company owns a 70% interest. Prior to July 1, 1961, the Star mine was operated by Hecla for The Bunker Hill Company on a fee basis and Hecla did not participate in the earnings. The adjoining Morning Mine was also leased from American Smelting and Refining Company, and will be operated through the Star mine. Net profits, after royalty, will also be divided 30% to Hecla and 70% to The Bunker Hill Company. The combined operation of the Star mine and Morning mine will be known as the "Star Unit Area" and will be operated by Hecla Mining Company."

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1925-1980, HRA attributed 100% of production from this mine to Hecla and 0% to Bunker Hill, because Hecla is a Defendant and Bunker Hill is not a Defendant nor has a relationship to any Defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Bunker Hill Mining Co. no longer exists and is not a subsidiary of any Defendant.

Hecla Mining Company is a Defendant.

Draft Mine Production Report

Success Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1905	Success Mining Co., Ltd.	Owner	100.00%	1,565
1906	Success Mining Co., Ltd.	Owner	100.00%	10,287
1907	Success Mining Co., Ltd.	Owner	100.00%	22,968
1908	Success Mining Co., Ltd.	Owner	100.00%	160
1909	Success Mining Co., Ltd.	Owner	100.00%	12,000
1910	Success Mining Co., Ltd.	Owner	100.00%	33,884
1911	Success Mining Co., Ltd.	Owner	100.00%	51,000
1912	Success Mining Co., Ltd.	Owner	100.00%	83,482
1913	Success Mining Co., Ltd.	Owner	100.00%	62,790
1914	Success Mining Co., Ltd.	Owner	100.00%	56,516
1915	Success Mining Co., Ltd.	Owner	100.00%	97,000
1916	Success Mining Co., Ltd.	Owner	100.00%	56,687
1917	Success Mining Co., Ltd.	Owner	100.00%	57,297
1918	Success Mining Co., Ltd.	Owner	100.00%	22,281
1919	Success Mining Co., Ltd.	Owner	100.00%	4,029
1920	Success Mining Co., Ltd.	Owner	100.00%	1,113
1921	Success Mining Co., Ltd.	Owner	100.00%	29
1922	Success Mining Co., Ltd.	Owner	100.00%	3,250
1923	Success Mining Co., Ltd.	Owner	100.00%	53,673
1924	Success Mining Co., Ltd.	Owner	100.00%	58,308
1925	Success Mining Co., Ltd.	Owner	100.00%	37,700
1926	Success Mining Co., Ltd.	Owner	100.00%	27,013
1927	Success Mining Co., Ltd.	Owner	100.00%	556
1928	Success Mining Co., Ltd.	Owner	100.00%	28
1929	Success Mining Co., Ltd.	Owner	100.00%	1,001
1930	Success Mining Co., Ltd.	Owner	100.00%	837
1931	Success Mining Co., Ltd.	Owner	100.00%	394
1936	Success Mining Co., Ltd.	Owner	100.00%	33,856
1939	Success Mining Co., Ltd.	Owner	100.00%	80
1940	Success Mining Co., Ltd.	Owner	100.00%	319
1941	Success Mining Co., Ltd.	Owner	100.00%	1,769
1942	Success Mining Co., Ltd.	Owner	100.00%	2,278
1943	Success Mining Co., Ltd.	Owner	100.00%	2,107
1944	Success Mining Co., Ltd.	Owner	100.00%	2,141
1945	Success Mining Co., Ltd.	Owner	100.00%	1,337
1946	Success Mining Co., Ltd.	Owner	100.00%	1,305
1947	Success Mining Co., Ltd.	Owner	100.00%	1,416
1948	Success Mining Co., Ltd.	Owner	100.00%	1,686
1949	Success Mining Co., Ltd.	Owner	100.00%	1,115
1950	Success Mining Co., Ltd.	Owner	100.00%	4,747
1951	Success Mining Co., Ltd.	Owner	100.00%	6,434
1952	Success Mining Co., Ltd.	Owner	100.00%	6,957

Total Short Tons of Mined Ore:	823,395
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Success Mining Co., Ltd.	823,395	100.00%
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12/11/97

SUCCESS MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-1, p. 24. Total short tons from this mine according to Mitchell and Bennett is 789,704, or 33,691 tons less than Jasberg's total. HRA is unable to account for the difference.

SOURCES OF OWNERS AND OPERATORS

1905-1952, Success Mining Co., Ltd., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1905, p. 241; 1908, p. 434; 1909, p. 356; 1910, p. 467; 1911, p. 600; 1914, p. 634; 1915, p. 556; 1921, p. 417; 1925, p. 546; 1945, p. 378); Idaho Inspector of Mines, *Mining Industry of Idaho* (1920, p. 114; 1923, p. 177; 1926, p. 218; 1929, p. 249; 1930, p. 256; 1941, p. 232; 1952, p. 140).

COMPANY-DEFENDANT RELATIONSHIPS

Success Mining Co. was acquired by Day Mines, Inc. (John Fahey, *Days of the Hercules*, p. 254).

Day Mines, Inc. merged with Hecla, a Defendant, in 1981.

All production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Sunset Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1913	William Clark	Owner 100.00%	25
1922	Clark-Montana Realty Co.	Owner 100.00%	76
1923	Clark-Montana Realty Co.	Owner 100.00%	67
1925	Clark-Montana Realty Co.	Owner 100.00%	22
1940	Anaconda Co.	Owner 100.00%	5,603
1941	Anaconda Co.	Owner 100.00%	25,416
1942	Anaconda Co.	Owner 100.00%	20,200
1943	Anaconda Co.	Owner 100.00%	24,917
1944	Anaconda Co.	Owner 100.00%	22,547
1945	Anaconda Co.	Owner 100.00%	24,982
1946	Anaconda Co.	Owner 100.00%	27,656
1947	Anaconda Co.	Owner 100.00%	32,185
1948	Anaconda Co.	Owner 100.00%	26,704
1949	Anaconda Co.	Owner 50.00%	10,792
	Day Mines, Inc.	Operator 50.00%	10,792
1950	Anaconda Co.	Owner 50.00%	17,439
	Day Mines, Inc.	Operator 50.00%	17,439
1951	Anaconda Co.	Owner 34.00%	11,390
	Day Mines, Inc.	Operator 33.00%	11,055
	Zanetti Bros.	Operator 33.00%	11,055
1952	Anaconda Co.	Owner 33.00%	8,255
	Day Mines, Inc.	Operator 34.00%	8,505
	Zanetti Bros.	Operator 33.00%	8,255
1953	Anaconda Co.	Owner 33.00%	10,201
	Day Mines, Inc.	Operator 33.00%	10,201
	Zanetti Bros.	Operator 34.00%	10,510
1954	Anaconda Co.	Owner 34.00%	5,722
	Day Mines, Inc.	Operator 33.00%	5,553
	Zanetti Bros.	Operator 33.00%	5,553
1955	Anaconda Co.	Owner 33.00%	4,838
	Day Mines, Inc.	Operator 34.00%	4,984
	Zanetti Bros.	Operator 33.00%	4,838
1956	Anaconda Co.	Owner 33.00%	1,924
	Day Mines, Inc.	Operator 33.00%	1,924
	Zanetti Bros.	Operator 34.00%	1,982
1957	Anaconda Co.	Owner 34.00%	3,581
	Day Mines, Inc.	Operator 33.00%	3,476
	Zanetti Bros.	Operator 33.00%	3,476
1958	Anaconda Co.	Owner 33.00%	663
	Day Mines, Inc.	Operator 34.00%	683
	Zanetti Bros.	Operator 33.00%	663
1976	Anaconda Co.	Owner 100.00%	2,200

Total Short Tons of Mined Ore:

408,347

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Anaconda Co.	287,213	70.34%
Day Mines, Inc.	74,612	18.27%
Zanetti Bros.	46,332	11.35%
Clark-Montana Realty Co.	165	0.04%
William Clark	25	0.01%

SUNSET MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Jasberg's data, Sheet P-2. Total short tons from this mine according to Mitchell and Bennett is 355,032. HRA is unable to account for the 43,315-ton difference between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1913-1925, William Clark, Clark-Montana Realty Co., owner. See U.S. Geological Survey, Mineral Resources of the United States, (1914, p. 629); Inspector of Mines, Mining Industry of Idaho, (1922; 1923; 1924, p. 163 and p. 181; 1927, p. 195 and p. 216; 1928, p. 179).

1940-1976, Anaconda Co., owner. See Inspector of Mines, Mining Industry of Idaho, (1940; 1971, p. 78).

1949-1976, Day Mines, Inc., operator. See Inspector of Mines, Mining Industry of Idaho, (p. 198), which reports assignment of lease from E.G. Smith to Day Mines, Inc., effective 12-1-1948. Also see U.S. Geological Survey, Mineral Resources of the United States, (1951, p. 1494).

1951-1958, Zanetti Bros., operator. See Inspector of Mines, Mining Industry of Idaho, (1951, p. 70; 1952, p. 108; 1953, p. 143; 1958).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

For 1949-1950, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

For 1951-1958, HRA divided production 34:33:33 between the owner and two operators, because all three companies are either defendants or linked to defendants. Note that the sublease was alternately described as Zanetti Brothers, Korsage and Zanetti, and Korsage and Smith (in 1955). Note also that Mineral Resources of the United States for 1951 (p. 1494) reports that Day Mines, Inc. had a 70% interest with Anaconda Co., while Korsage and Zanetti operated under a sublease.

COMPANY-DEFENDANT RELATIONSHIPS

Anaconda Co. is a subsidiary of ARCO, a Defendant.
Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Zanetti Brothers is a Defendant. The relationship of the Korsage and Zanetti and
Korsage and Smith subleases to Zanetti Brothers is not clear.

Draft Mine Production Report

Sunshine Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1904	Blake Brothers	Owner	100.00% 25
1905	Blake Brothers	Owner	100.00% 28
1908	Blake Brothers	Owner	100.00% 28
1912	Blake Brothers	Owner	100.00% 92
1913	Blake Brothers	Owner	100.00% 77
1914	Blake Brothers	Owner	100.00% 358
1915	Blake Brothers	Owner	100.00% 193
1916	Blake Brothers	Owner	100.00% 403
1917	Blake Brothers	Owner	50.00% 1,244
	Yankee Girl Mining Co.	Owner	50.00% 1,244
1918	Blake Brothers	Owner	50.00% 336
	Yankee Girl Mining Co.	Owner	50.00% 336
1919	Blake Brothers	Owner	50.00% 138
	Yankee Girl Mining Co.	Owner	50.00% 138
1920	Blake Brothers	Owner	50.00% 303
	Yankee Girl Mining Co.	Owner	50.00% 303
1921	Blake Brothers	Owner	34.00% 283
	Sunshine Mining Co.	Operator	33.00% 274
	Yankee Girl Mining Co.	Owner	33.00% 274
1922	Blake Brothers	Owner	34.00% 731
	Sunshine Mining Co.	Operator	33.00% 709
	Yankee Girl Mining Co.	Owner	33.00% 709
1923	Blake Brothers	Owner	34.00% 895
	Sunshine Mining Co.	Operator	33.00% 868
	Yankee Girl Mining Co.	Owner	33.00% 868
1924	Blake Brothers	Owner	34.00% 6,467
	Sunshine Mining Co.	Operator	33.00% 6,277
	Yankee Girl Mining Co.	Owner	33.00% 6,277
1925	Blake Brothers	Owner	34.00% 8,869
	Sunshine Mining Co.	Operator	33.00% 8,608
	Yankee Girl Mining Co.	Owner	33.00% 8,608
1926	Sunshine Mining Co.	Owner	100.00% 21,435
1927	Sunshine Mining Co.	Owner	100.00% 40,000
1928	Sunshine Mining Co.	Owner	100.00% 1,838
1929	Sunshine Mining Co.	Owner	100.00% 62,392
1930	Sunshine Mining Co.	Owner	100.00% 147,948
1931	Sunshine Mining Co.	Owner	100.00% 183,441
1932	Sunshine Mining Co.	Owner	100.00% 151,883
1933	Sunshine Mining Co.	Owner	100.00% 109,010
1934	Sunshine Mining Co.	Owner	100.00% 108,606
1935	Sunshine Mining Co.	Owner	100.00% 160,417
1936	Sunshine Mining Co.	Owner	100.00% 215,955
1937	Sunshine Mining Co.	Owner	100.00% 255,800
1938	Sunshine Mining Co.	Owner	100.00% 317,984

12/11/97

1939	Sunshine Mining Co.	Owner	100.00%	320,990
1940	Sunshine Mining Co.	Owner	100.00%	278,810
1941	Sunshine Mining Co.	Owner	100.00%	309,700
1942	Sunshine Mining Co.	Owner	100.00%	251,700
1943	Sunshine Mining Co.	Owner	100.00%	155,412
1944	Sunshine Mining Co.	Owner	100.00%	42,273
1945	Sunshine Mining Co.	Owner	100.00%	32,285
1946	Sunshine Mining Co.	Owner	100.00%	21,251
1947	Sunshine Mining Co.	Owner	100.00%	64,120
1948	Sunshine Mining Co.	Owner	100.00%	84,852
1949	Sunshine Mining Co.	Owner	100.00%	89,289
1950	Sunshine Mining Co.	Owner	100.00%	144,098
1951	Sunshine Mining Co.	Owner	100.00%	116,324
1952	Sunshine Mining Co.	Owner	100.00%	114,467
1953	Sunshine Mining Co.	Owner	100.00%	127,818
1954	Sunshine Mining Co.	Owner	100.00%	260,698
1955	Sunshine Mining Co.	Owner	100.00%	119,596
1956	Sunshine Mining Co.	Owner	100.00%	200,028
1957	Sunshine Mining Co.	Owner	100.00%	206,385
1958	Hecla Mining Co.	Operator	33.25%	77,128
	Silver Dollar Mining Co.	Operator	9.61%	22,292
	Sunshine Mining Co.	Owner	57.14%	132,544
1959	Hecla Mining Co.	Operator	33.25%	77,987
	Silver Dollar Mining Co.	Operator	9.61%	22,540
	Sunshine Mining Co.	Owner	57.14%	134,021
1960	Hecla Mining Co.	Operator	33.25%	77,254
	Silver Dollar Mining Co.	Operator	9.61%	22,328
	Sunshine Mining Co.	Owner	57.14%	132,760
1961	Hecla Mining Co.	Operator	33.25%	62,817
	Silver Dollar Mining Co.	Operator	9.61%	18,156
	Sunshine Mining Co.	Owner	57.14%	107,951
1962	Hecla Mining Co.	Operator	33.25%	45,149
	Silver Dollar Mining Co.	Operator	9.61%	13,049
	Sunshine Mining Co.	Owner	57.14%	77,588
1963	Hecla Mining Co.	Operator	33.25%	44,102
	Silver Dollar Mining Co.	Operator	9.61%	12,746
	Sunshine Mining Co.	Owner	57.14%	75,789
1964	Hecla Mining Co.	Operator	33.25%	43,823
	Silver Dollar Mining Co.	Operator	9.61%	12,666
	Sunshine Mining Co.	Owner	57.14%	75,310
1965	Hecla Mining Co.	Operator	33.25%	56,114
	Silver Dollar Mining Co.	Operator	9.61%	16,218
	Sunshine Mining Co.	Owner	57.14%	96,431
1966	Hecla Mining Co.	Operator	33.25%	63,435
	Silver Dollar Mining Co.	Operator	9.61%	18,334
	Sunshine Mining Co.	Owner	57.14%	109,013
1967	Hecla Mining Co.	Operator	33.25%	79,772
	Silver Dollar Mining Co.	Operator	9.61%	23,056
	Sunshine Mining Co.	Owner	57.14%	137,087
1968	Hecla Mining Co.	Operator	33.25%	83,820
	Silver Dollar Mining Co.	Operator	9.61%	24,226
	Sunshine Mining Co.	Owner	57.14%	144,044

1969	Hecla Mining Co.	Operator	33.25%	90,279
	Silver Dollar Mining Co.	Operator	9.61%	26,093
	Sunshine Mining Co.	Owner	57.14%	155,144
1970	Hecla Mining Co.	Operator	33.25%	84,082
	Silver Dollar Mining Co.	Operator	9.61%	24,302
	Sunshine Mining Co.	Owner	57.14%	144,495
1971	Hecla Mining Co.	Operator	33.25%	86,070
	Silver Dollar Mining Co.	Operator	9.61%	24,876
	Sunshine Mining Co.	Owner	57.14%	147,911
1972	Hecla Mining Co.	Operator	33.25%	34,316
	Silver Dollar Mining Co.	Operator	9.61%	9,918
	Sunshine Mining Co.	Owner	57.14%	58,972
1973	Hecla Mining Co.	Operator	33.25%	41,077
	Silver Dollar Mining Co.	Operator	9.61%	11,872
	Sunshine Mining Co.	Owner	57.14%	70,590
1974	Hecla Mining Co.	Operator	33.25%	60,530
	Silver Dollar Mining Co.	Operator	9.61%	17,495
	Sunshine Mining Co.	Owner	57.14%	104,021
1975	Hecla Mining Co.	Operator	33.25%	75,111
	Silver Dollar Mining Co.	Operator	9.61%	21,709
	Sunshine Mining Co.	Owner	57.14%	129,078
1976	Hecla Mining Co.	Operator	33.25%	15,251
	Silver Dollar Mining Co.	Operator	9.61%	4,408
	Sunshine Mining Co.	Owner	57.14%	26,210
1977	Hecla Mining Co.	Operator	33.25%	51,576
	Silver Dollar Mining Co.	Operator	9.61%	14,907
	Sunshine Mining Co.	Owner	57.14%	88,633
1978	Hecla Mining Co.	Operator	33.25%	66,783
	Silver Dollar Mining Co.	Operator	9.61%	19,302
	Sunshine Mining Co.	Owner	57.14%	114,766
1979	Hecla Mining Co.	Operator	33.25%	57,266
	Silver Dollar Mining Co.	Operator	9.61%	16,551
	Sunshine Mining Co.	Owner	57.14%	98,411
1980	Hecla Mining Co.	Operator	33.25%	9,493
	Silver Dollar Mining Co.	Operator	9.61%	2,744
	Sunshine Mining Co.	Owner	57.14%	16,313

Total Short Tons of Mined Ore: 8,932,868

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Sunshine Mining Co.	7,110,624	79.60%
Hecla Mining Co.	1,383,234	15.48%
Silver Dollar Mining Co.	399,786	4.48%
Blake Brothers	20,468	0.23%
Yankee Girl Mining Co.	18,757	0.21%

SUNSHINE MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet M-4, pp. 1-3. Total short tons from this mine according to Mitchell and Bennett is 9,800,584 (p. 15), or 867,715 tons more than Jasberg's total. HRA is unable to account for the 867,715 ton discrepancy between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1904-1916, Blake Brothers, owner. See Unpublished Annual Inspector Reports by Mine (1912 - 1916-Sunshine)

1917-1920, Blake Brothers and Yankee Girl Mining Co., owners. See Unpublished Annual Inspector Reports by Mine (1917-Sunshine)

1921-1925, Blake Brothers, Yankee Girl Mining Co. and Sunshine Mining Co., owners. See Unpublished Annual Inspector Reports by Mine (1921-Sunshine; 1922-Sunshine; 1923-Sunshine; 1925-Sunshine); Inspector of Mines, *Mining Industry of Idaho* (1922, p. 165; 1925, pp. 221-222)

1926-1957, Sunshine Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1931, p. 250; 1957, p. 132)

1958-1980, Sunshine Mining Co., owner, and Hecla Mining Co. and Silver Dollar, operators. See Corporate Annual Reports (1957-Sunshine; 1958-Sunshine; 1960-Hecla; 1961-Hecla; 1963-Hecla; 1964-Hecla; 1966-Sunshine; 1967-Sunshine; 1970-Sunshine)

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1917-1920, HRA divided production equally between the owners because both companies are linked to Defendants.

1921-1925, HRA divided production equally between the owners and operator because all three of the companies are linked to Defendants.

1958-1980, HRA attributed 33.25% of production to the Hecla Mining Co., 57.14% to Sunshine Mining Co., and 9.61% to Silver Dollar due to an operating agreement set forth by the companies themselves.

COMPANY-DEFENDANT RELATIONSHIPS

Sunshine Mining Co. is a Defendant.

Hecla Mining Co. is a Defendant.

Production of Silver Dollar, Blake Brothers, and Yankee Girl Mining Co. is included in the share of Sunshine Mining Co. as current owner and successor in interest.

Draft Mine Production Report

Tamarack-Custer Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1905	Tamarack and Chesapeake Mining Co.	Owner	100.00% 122
1906	Tamarack and Chesapeake Mining Co.	Owner	100.00% 323
1907	Tamarack and Chesapeake Mining Co.	Owner	100.00% 309
1913	Tamarack and Custer Consolidated Mining	Owner	100.00% 48,124
1914	Tamarack and Custer Consolidated Mining	Owner	100.00% 82,084
1915	Tamarack and Custer Consolidated Mining	Owner	100.00% 101,577
1916	Tamarack and Custer Consolidated Mining	Owner	100.00% 62,281
1917	Tamarack and Custer Consolidated Mining	Owner	100.00% 67,308
1918	Tamarack and Custer Consolidated Mining	Owner	100.00% 113,866
1919	Tamarack and Custer Consolidated Mining	Owner	100.00% 58,108
1920	Tamarack and Custer Consolidated Mining	Owner	100.00% 143,884
1921	Tamarack and Custer Consolidated Mining	Owner	100.00% 36,928
1922	Tamarack and Custer Consolidated Mining	Owner	100.00% 31,776
1923	Tamarack and Custer Consolidated Mining	Owner	100.00% 113,011
1924	Tamarack and Custer Consolidated Mining	Owner	100.00% 106,044
1925	Tamarack and Custer Consolidated Mining	Owner	100.00% 168,845
1926	Tamarack and Custer Consolidated Mining	Owner	100.00% 140,042
1927	Tamarack and Custer Consolidated Mining	Owner	100.00% 48,695
1928	Tamarack and Custer Consolidated Mining	Owner	100.00% 96,810
1929	Tamarack and Custer Consolidated Mining	Owner	100.00% 83,922
1930	Tamarack and Custer Consolidated Mining	Owner	100.00% 20,334
1931	Tamarack and Custer Consolidated Mining	Owner	100.00% 1,961
1932	Tamarack and Custer Consolidated Mining	Owner	100.00% 1,080
1934	Tamarack and Custer Consolidated Mining	Owner	100.00% 32
1935	Tamarack and Custer Consolidated Mining	Owner	100.00% 104
1936	Tamarack and Custer Consolidated Mining	Owner	100.00% 129
1937	Tamarack and Custer Consolidated Mining	Owner	100.00% 22,213
1938	Tamarack and Custer Consolidated Mining	Owner	100.00% 7,300
1939	Tamarack and Custer Consolidated Mining	Owner	100.00% 10,997
1940	Tamarack and Custer Consolidated Mining	Owner	100.00% 56,178
1941	Tamarack and Custer Consolidated Mining	Owner	100.00% 99,476
1942	Tamarack and Custer Consolidated Mining	Owner	100.00% 110,080
1943	Tamarack and Custer Consolidated Mining	Owner	100.00% 118,867
1944	Tamarack and Custer Consolidated Mining	Owner	100.00% 100,605
1945	Tamarack and Custer Consolidated Mining	Owner	100.00% 70,801
1946	Tamarack and Custer Consolidated Mining	Owner	100.00% 77,007
1947	Day Mines, Inc.	Owner	100.00% 100,883
1948	Day Mines, Inc.	Owner	100.00% 89,537
1949	Day Mines, Inc.	Owner	100.00% 64,098
1950	Day Mines, Inc.	Owner	100.00% 67,401
1951	Day Mines, Inc.	Owner	100.00% 84,046
1952	Day Mines, Inc.	Owner	100.00% 74,771
1953	Day Mines, Inc.	Owner	100.00% 38,494
1954	Day Mines, Inc.	Owner	100.00% 19,516

12/11/97

1955	Day Mines, Inc.	Owner	100.00%	14,592
1956	Day Mines, Inc.	Owner	100.00%	26,837
1957	Day Mines, Inc.	Owner	100.00%	19,559
1958	Day Mines, Inc.	Owner	100.00%	10,038
1960	Day Mines, Inc.	Owner	100.00%	3,884
1961	Day Mines, Inc.	Owner	100.00%	3,214
1967	Day Mines, Inc.	Owner	100.00%	2
1968	Day Mines, Inc.	Owner	100.00%	82
1977	Day Mines, Inc.	Owner	100.00%	1,295

Total Short Tons of Mined Ore: 2,819,472

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

Tamarack and Custer Consolidated Mining Co.	2,200,469	78.05%
Day Mines, Inc.	618,249	21.93%
Tamarack and Chesapeake Mining Co.	754	0.03%

TAMARACK-CUSTER MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-1, pp. 11-14. Total short tons from this mine according to Mitchell and Bennett matches Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1905-1907, Tamarack-Chesapeake Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1906, p. 265).

1913-1946, Tamarack and Custer Consolidated Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1913, p. 785; 1914, p. 634; 1915-1920 [reported as co-operator]; 1926, p. 448; 1928, p. 681; 1938, 1940, 1942, 1944).

1947-1977, Day Mines, Inc., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1950, pp. 205-06); U.S. Geological Survey, *Mineral Resources of the United States* (1953, p. 348; 1956, p. 387; 1961, p. 343).

COMPANY-DEFENDANT RELATIONSHIPS

Tamarack-Chesapeake Mining Co. no longer exists.

Tamarack and Custer Consolidated Mining Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla, a Defendant, in 1981.

All production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Tiger-Poorman Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1884	Various Tiger-Poorman Owners	Owner 100.00%	10,707
1885	Various Tiger-Poorman Owners	Owner 100.00%	10,707
1886	Various Tiger-Poorman Owners	Owner 100.00%	10,707
1887	Various Tiger-Poorman Owners	Owner 100.00%	10,707
1888	Various Tiger-Poorman Owners	Owner 100.00%	10,707
1889	Various Tiger-Poorman Owners	Owner 100.00%	10,707
1890	Various Tiger-Poorman Owners	Owner 100.00%	10,707
1891	Various Tiger-Poorman Owners	Owner 100.00%	10,707
1892	Various Tiger-Poorman Owners	Owner 100.00%	10,707
1893	Various Tiger-Poorman Owners	Owner 100.00%	10,707
1894	Various Tiger-Poorman Owners	Owner 100.00%	10,706
1895	Various Tiger-Poorman Owners	Owner 100.00%	10,706
1896	Various Tiger-Poorman Owners	Owner 100.00%	10,706
1897	Various Tiger-Poorman Owners	Owner 100.00%	10,706
1898	Various Tiger-Poorman Owners	Owner 100.00%	10,706
1899	Various Tiger-Poorman Owners	Owner 100.00%	10,706
1900	Various Tiger-Poorman Owners	Owner 100.00%	10,706
1901	Various Tiger-Poorman Owners	Owner 100.00%	141,107
1902	Various Tiger-Poorman Owners	Owner 100.00%	115,500
1903	Federal Mining & Smelting	Owner 100.00%	110,958
1904	Federal Mining & Smelting	Owner 100.00%	130,166
1905	Federal Mining & Smelting	Owner 100.00%	132,051
1906	Federal Mining & Smelting	Owner 100.00%	117,476
1907	Federal Mining & Smelting	Owner 100.00%	51,800
1908	Federal Mining & Smelting	Owner 100.00%	26,226
1909	Federal Mining & Smelting	Owner 100.00%	112,099
1910	Federal Mining & Smelting	Owner 100.00%	434
1912	Federal Mining & Smelting	Owner 100.00%	118
1913	Federal Mining & Smelting	Owner 100.00%	77
1914	Federal Mining & Smelting	Owner 100.00%	100
1915	Federal Mining & Smelting	Owner 100.00%	99
1916	Federal Mining & Smelting	Owner 100.00%	58
1917	Federal Mining & Smelting	Owner 100.00%	5,271
1918	Federal Mining & Smelting	Owner 100.00%	533
1919	Federal Mining & Smelting	Owner 100.00%	478
1941	Hecla Mining Co.	Owner 100.00%	76
1943	Hecla Mining Co.	Owner 100.00%	880
1951	Hecla Mining Co.	Owner 100.00%	1,064
1952	Hecla Mining Co.	Owner 100.00%	210

Total Short Tons of Mined Ore:	1,128,793
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Federal Mining & Smelting	687,944 60.95%
Various Tiger-Poorman Owners	438,619 38.86%
Hecla Mining Co.	2,230 0.20%

TIGER-POORMAN MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Jasberg's data, Sheet P-1, pp. 19-20. Note that year by year production for 1884-1900 is based on a total through 1900 divided by the number of years. Total short tons from this mine according to Mitchell and Bennett matches Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1903-1919, Federal Mining and Smelting Co., owner. For acquisition, see *Engineering and Mining Journal* (November 27, 1909). Also see U.S. Geological Survey, *Mineral Resources of the United States* (1907-1910, 1915-1917).

1941-1952, Hecla Mining Co., owner. For acquisition (in 1920), see John Fahey, *Hecla: A Century of Mining*, p.50; Hecla Mining Co. annual report, 1920.

COMPANY-DEFENDANT RELATIONSHIPS

Federal Mining and Smelting Co. is a Defendant and a subsidiary of ASARCO, another Defendant. Production from this mine by Federal is included in ASARCO's share.

Hecla Mining Co. is a Defendant.

Various Tiger Poorman Owners (early period) production is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Tough Nut Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
?	Various Tough Nut Mine Owners	Owner 100.00%	1,448
Total Short Tons of Mined Ore:			1,448

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

Various Tough Nut Mine Owners	1,448	100.00%
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TOUGH NUT MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

The production figure is from Pete Jasberg's data, Sheet "Mines grouped by location code" I, p. 4. Mitchell and Bennett give the same total. Neither source specifies years of production for this mine.

SOURCES OF OWNERS AND OPERATORS

None known.

COMPANY-DEFENDANT RELATIONSHIPS

The Tough Nut Mine property lies in the area at the head of Nine Mile Creek that was consolidated under Day Mines, Inc. in 1947. Day Mines, Inc. merged with Hecla Mining Co., a Defendant, in 1981.

Production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Tuscumbia Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1911	Tuscumbia Mining Co.	Owner	100.00% 274
1912	Tuscumbia Mining Co.	Owner	100.00% 274
1913	Tuscumbia Mining Co.	Owner	100.00% 274
1914	Tuscumbia Mining Co.	Owner	100.00% 274
1915	Tuscumbia Mining Co.	Owner	100.00% 274
1916	Tuscumbia Mining Co.	Owner	100.00% 274
1917	Tuscumbia Mining Co.	Owner	100.00% 274
1918	Tuscumbia Mining Co.	Owner	100.00% 274
1919	Tuscumbia Mining Co.	Owner	100.00% 274
1920	Tuscumbia Mining Co.	Owner	100.00% 274
1921	Tuscumbia Mining Co.	Owner	100.00% 274
1922	Tuscumbia Mining Co.	Owner	100.00% 274
1923	Tuscumbia Mining Co.	Owner	100.00% 274
1924	Tuscumbia Mining Co.	Owner	100.00% 274
1925	Tuscumbia Mining Co.	Owner	100.00% 274
1926	Tuscumbia Mining Co.	Owner	100.00% 274
1927	Tuscumbia Mining Co.	Owner	100.00% 274
1928	Tuscumbia Mining Co.	Owner	100.00% 274
1929	Tuscumbia Mining Co.	Owner	100.00% 275
1930	Tuscumbia Mining Co.	Owner	100.00% 275
1931	Tuscumbia Mining Co.	Owner	100.00% 275
1932	Tuscumbia Mining Co.	Owner	100.00% 275
1933	Tuscumbia Mining Co.	Owner	100.00% 275
1934	Tuscumbia Mining Co.	Owner	100.00% 275
1935	Tuscumbia Mining Co.	Owner	100.00% 275
1936	Tuscumbia Mining Co.	Owner	100.00% 275
1937	Tuscumbia Mining Co.	Owner	100.00% 275
1938	Various Tuscumbia Mine Owners	Owner	100.00% 275
1939	Various Tuscumbia Mine Owners	Owner	100.00% 275
1940	Various Tuscumbia Mine Owners	Owner	100.00% 275
1941	Various Tuscumbia Mine Owners	Owner	100.00% 275
1942	Various Tuscumbia Mine Owners	Owner	100.00% 275
1943	Monitor Mining Co.	Owner	100.00% 275
1944	Monitor Mining Co.	Owner	100.00% 275
1945	Monitor Mining Co.	Owner	100.00% 275
1946	Monitor Mining Co.	Owner	100.00% 275
1947	Day Mines, Inc.	Owner	100.00% 275
1948	Day Mines, Inc.	Owner	100.00% 275
1949	Day Mines, Inc.	Owner	100.00% 275
1950	Day Mines, Inc.	Owner	100.00% 275
1951	Day Mines, Inc.	Owner	100.00% 275
1952	Day Mines, Inc.	Owner	100.00% 275
1953	Day Mines, Inc.	Owner	100.00% 275
1954	Day Mines, Inc.	Owner	100.00% 275

12/11/97

1955	Day Mines, Inc.	Owner	100.00%	275
1956	Day Mines, Inc.	Owner	100.00%	275

Total Short Tons of Mined Ore:				12,632
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Tuscumbia Mining Co.	7,407	58.64%
Day Mines, Inc.	2,750	21.77%
Various Tuscumbia Mine Owners	1,375	10.89%
Monitor Mining Co.	1,100	8.71%

TUSCUMBIA MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

The production figures are from Pete Jasberg's data sheet, "Mines grouped by location code" I, p. 36. Year by year figures represent the total divided by the number of years of production. Mitchell and Bennett give the same total as Jasberg and list 1911-1956 as the years of production.

SOURCES OF OWNERS AND OPERATORS

1911-1937, Tuscumbia Mining Co., owner. Company was incorporated in 1911 and was listed in Idaho Inspector of Mines, *Mining Industry of Idaho* (1911-1937). Note that Tuscumbia Mining Co., Limited and Idora Mining Co. Limited reportedly combined to form Consolidated Mining Corporation in 1931. However, the new corporation never reported to the Idaho Inspector of Mines and apparently did not materialize.

1938-1942, Various Tuscumbia Mine Owners. No information found.

1943-1946, Monitor Mining Co., owner. See Unpublished Annual Inspector Reports by Mine (1943 - Idora; 1943 - Interstate-Callahan), which list the Tuscumbia claim as part of Monitor Mining Company's holdings.

1947-1956, Day Mines, Inc., owner. See Unpublished Annual Inspector Reports by Mine (1948 - Interstate-Callahan; 1950 - Interstate-Callahan), which list the Tuscumbia claim as part of Day Mines, Inc.'s holdings. Also see U.S. Geological Survey, *Mineral Resources of the United States* (1956, p. 384); Idaho Inspector of Mines, *Mining Industry of Idaho* (1951, p. 76).

COMPANY-DEFENDANT RELATIONSHIPS

Tuscumbia Mining Co. no longer exists. Its property was acquired by Monitor Mining Co.

Monitor Mining Co. merged with Day Mines, Inc. in 1947.

Day Mines, Inc. merged with Hecla Mining Co., a Defendant, in 1981.

All production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Mine Production Report

Western Union Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1920	Western Union Mining Co.	Owner	100.00% 146
1921	Western Union Mining Co.	Owner	100.00% 755
1922	Western Union Mining Co.	Owner	100.00% 998
1923	Western Union Mining Co.	Owner	100.00% 611
1924	Western Union Mining Co.	Owner	100.00% 426
1925	Western Union Mining Co.	Owner	100.00% 156
1926	Western Union Mining Co.	Owner	100.00% 2,237
1927	Western Union Mining Co.	Owner	100.00% 543
1929	Western Union Mining Co.	Owner	100.00% 41
1930	Western Union Mining Co.	Owner	100.00% 38
1939	Western Union Mining Co.	Owner	100.00% 47
1947	Day Mines, Inc.	Owner	100.00% 1,295
1948	Day Mines, Inc.	Owner	100.00% 3,880
Total Short Tons of Mined Ore:			11,173

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Western Union Mining Co.	5,998	53.68%
Day Mines, Inc.	5,175	46.32%

WESTERN UNION MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Jasberg's data, Sheet P-1, p. 38. Total short tons from this mine according to Mitchell and Bennett matches Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1920-1939, Western Union Mining Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1922, p. 168; 1924, p. 227; 1926, p. 223).

1947-1948, Day Mines, Inc. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1950, p. 208).

COMPANY-DEFENDANT RELATIONSHIPS

Western Union Mining Co. property became part of Day Mines, Inc.'s holdings in 1947.

Day Mines, Inc. merged with Hecla Mining Co., a Defendant, in 1981.

All production from this mine is included in Hecla's share as current owner and successor in interest.

Draft Defendant Company Report

Highland Surprise Consolidated Mining Co.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Highland Surprise	1914 — 1971	518,600
Total Tons of Mined Ore:		518,600
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		0.57%

The above defendant company is successor in interest to the following owner / operators:

Highland Surprise Consolidated Mining Co.

Surprise Mining & Milling Co., Ltd.

Various Highland Surprise Owners

Draft Mine Production Report

Highland Surprise Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1904	Various Highland Surprise Owners	Owner 100.00%	18
1905	Various Highland Surprise Owners	Owner 100.00%	15
1907	Various Highland Surprise Owners	Owner 100.00%	250
1910	Surprise Mining & Milling Co., Ltd.	Owner 100.00%	89
1911	Surprise Mining & Milling Co., Ltd.	Owner 100.00%	3,200
1912	Surprise Mining & Milling Co., Ltd.	Owner 100.00%	1,608
1914	Highland Surprise Consolidated Mining Co.	Owner 100.00%	32
1915	Highland Surprise Consolidated Mining Co.	Owner 100.00%	700
1916	Highland Surprise Consolidated Mining Co.	Owner 100.00%	18,458
1917	Highland Surprise Consolidated Mining Co.	Owner 100.00%	20,324
1922	Highland Surprise Consolidated Mining Co.	Owner 100.00%	103
1923	Highland Surprise Consolidated Mining Co.	Owner 100.00%	221
1924	Highland Surprise Consolidated Mining Co.	Owner 100.00%	64
1925	Highland Surprise Consolidated Mining Co.	Owner 100.00%	11,751
1926	Highland Surprise Consolidated Mining Co.	Owner 100.00%	31,065
1927	Highland Surprise Consolidated Mining Co.	Owner 100.00%	12,695
1941	Highland Surprise Consolidated Mining Co.	Owner 100.00%	21,000
1942	Highland Surprise Consolidated Mining Co.	Owner 100.00%	14,474
1943	Highland Surprise Consolidated Mining Co.	Owner 100.00%	18,130
1944	Highland Surprise Consolidated Mining Co.	Owner 100.00%	34,857
1945	Highland Surprise Consolidated Mining Co.	Owner 100.00%	30,528
1946	Highland Surprise Consolidated Mining Co.	Owner 100.00%	25,940
1947	Highland Surprise Consolidated Mining Co.	Owner 100.00%	40,888
1948	Highland Surprise Consolidated Mining Co.	Owner 100.00%	72,925
1949	Highland Surprise Consolidated Mining Co.	Owner 100.00%	52,313
1950	Highland Surprise Consolidated Mining Co.	Owner 100.00%	32,100
1951	Highland Surprise Consolidated Mining Co.	Owner 100.00%	25,000
1952	Highland Surprise Consolidated Mining Co.	Owner 100.00%	25,879
1953	Highland Surprise Consolidated Mining Co.	Owner 100.00%	15,065
1954	Highland Surprise Consolidated Mining Co.	Owner 100.00%	6,679
1955	Highland Surprise Consolidated Mining Co.	Owner 100.00%	1,609
1956	Highland Surprise Consolidated Mining Co.	Owner 100.00%	361
1962	Highland Surprise Consolidated Mining Co.	Owner 100.00%	4
1966	Highland Surprise Consolidated Mining Co.	Owner 100.00%	103
1967	Highland Surprise Consolidated Mining Co.	Owner 100.00%	45
1971	Highland Surprise Consolidated Mining Co.	Owner 50.00%	107
	Sunshine Mining Co.	Operator 50.00%	107

Total Short Tons of Mined Ore:

518,706

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Highland Surprise Consolidated Mining Co.	513,420	98.98%
Surprise Mining & Milling Co., Ltd.	4,897	0.94%
Various Highland Surprise Owners	283	0.05%
Sunshine Mining Co.	107	0.02%

12/11/97

HIGHLAND SURPRISE MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-10, pp. 1-3. Total short tons from this mine according to Mitchell and Bennett matches Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1910-1912, Surprise Mining & Milling Co., Ltd., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1910, p. 468; 1911, p. 601; 1912, p. 737).

1914-1967, Highland Surprise Consolidated Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1914, p. 638; 1915, p. 560; 1916, p. 601; 1917, p. 492); Idaho Inspector of Mines, *Mining Industry of Idaho* (1922, p. 144; 1924, p. 176; 1925, p. 200; 1926, p. 197; 1927, p. 210; 1941, p. 221); U.S. Geological Survey, *Mineral Resources of the United States*, 1943, p. 379; 1947, 1949, 1951, 1953, p. 349; 1956, p. 388; 1962, p. 361); Idaho Inspector of Mines, *Mining Industry of Idaho* (1950, p. 214; 1954, p. 132; 1955, p. 127; 1966, p. 93). These sources note various operators, but none could be linked to Defendants. Sidney Mining Co. had an operating agreement from 1954 to 1962, but it is unclear whether any production resulted from it. Mine was reported as "closed" in 1954, "idle" in 1955. Jim Doyle did "clean-up work" in 1956.

1971, Highland Surprise Consolidated Mining Co., owner; Sunshine Mining Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1968, p. 117).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1971, HRA divided production equally between the owner and the operator because both companies are Defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Surprise Mining & Milling Co. no longer exists. Production by this company and various Highland-Surprise Mine owners (early period) is included in Highland Surprise Consolidated Mining Co.'s share as current owner and successor in interest.

Highland Surprise Consolidated Mining Co. is a Defendant.
Sunshine Mining Co. was reorganized into Sunshine Mining and Refining Co., a Defendant.

Draft Defendant Company Report

Hypothek Mining & Milling Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Hypothek	1913 — 1954	88,702
Total Tons of Mined Ore:		88,702
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		0.10%

The above defendant company is successor in interest to the following owner / operators:

Hypothek Mining & Milling Co.

Draft Mine Production Report

Hypothek Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1913	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1914	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1915	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1916	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1917	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1918	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1919	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1920	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1921	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1922	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1923	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1924	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1925	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1926	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1927	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1928	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1929	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1930	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1931	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1932	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1933	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1934	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1935	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1936	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1937	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1938	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1939	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1940	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1941	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1942	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1943	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1944	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1945	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1946	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1947	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1948	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1949	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1950	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1951	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1952	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1953	Hypothek Mining & Milling Co.	Owner 100.00%	2,111
1954	Hypothek Mining & Milling Co.	Owner 100.00%	2,111

Total Short Tons of Mined Ore:	88,702
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Hypothek Mining & Milling Co.	88,702	100.00%
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12/11/97

HYPOTHEEK MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures represent Mitchell and Bennett's total divided by the number of years of production. Total short tons from this mine according to Mitchell and Bennett is 88,702 (p. 10).

SOURCES OF OWNERS AND OPERATORS

1913-1954, Hypotheek Mining & Milling Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1913, p. 787; 1915, p. 560; 1916, p. 601; 1917, p. 49; 1925, p. 549; 1926, p. 452; 1928, p. 686; 1929, p. 410); Inspector of Mines, *Mining Industry of Idaho* (1922, p. 145; 1954, p. 133); Unpublished Annual Inspector Reports by Mine (1913-Hypotheek).

COMPANY-DEFENDANT RELATIONSHIPS

Hypotheek Mining & Milling Co. is a Defendant.

Draft Defendant Company Report

Lookout Mountain Mining & Milling Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Look-Out Mountain	1922 — 1952	1,595
Total Tons of Mined Ore:		1,595
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		0.00%

The above defendant company is successor in interest to the following owner / operators:

Lookout Mountain Mining and Milling Co.

Draft Mine Production Report

Look-Out Mountain Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1922	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1923	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1924	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1925	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1926	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1927	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1928	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1929	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1930	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1931	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1932	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1933	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1934	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1935	Lookout Mountain Mining and Milling Co.	Owner	100.00% 52
1936	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1937	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1938	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1939	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1940	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1941	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1942	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1943	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1944	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1945	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1946	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1947	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1948	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1949	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1950	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1951	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
1952	Lookout Mountain Mining and Milling Co.	Owner	100.00% 51
Total Short Tons of Mined Ore:			1,595

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Lookout Mountain Mining and Milling Co.	1,595 100.00%

LOOK-OUT MOUNTAIN MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures represent Jasberg's total (Mines Grouped by Location Sheet II, p. 5) divided by the number of years of production provided by Mitchell and Bennett. Total short tons from this mine according to Mitchell and Bennett is 1,595 (p. 10).

SOURCES OF OWNERS AND OPERATORS

1922-1952, Lookout Mountain Mining and Milling Co., owner. See Inspector of Mines, *Mining Industry in Idaho* (1922, p. 120,150; 1923, p. 164; 1924, pp. 181-182; 1925, p. 206; 1926, p. 205; 1927, p. 216; 1928, p. 208; 1929, p. 235; 1930, p. 242-243; 1931, pp. 234, 252; 1936, p. 272; 1947, p. 194; 1949, p. 145; 1950, p. 217; 1951, p. 87; 1968, p. 120; 1969-1970, p. 151)

COMPANY-DEFENDANT RELATIONSHIPS

Look-Out Mountain Mining and Milling Co. is a Defendant.

Draft Defendant Company Report

Mascot Silver-Lead Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Little Pittsburg	1916 — 1931	318,327
Total Tons of Mined Ore:		318,327
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		0.35%

The above defendant company is successor in interest to the following owner / operators:

Pine Creek Lead-Zinc Mining Co.

Various Little Pittsburg Owners

Draft Mine Production Report

Little Pittsburg Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Various Little Pittsburg Owners	Owner 100.00%	7,959
1917	Various Little Pittsburg Owners	Owner 100.00%	7,959
1918	Various Little Pittsburg Owners	Owner 100.00%	7,959
1919	Various Little Pittsburg Owners	Owner 100.00%	7,959
1920	Various Little Pittsburg Owners	Owner 100.00%	7,959
1921	Various Little Pittsburg Owners	Owner 100.00%	7,959
1922	Various Little Pittsburg Owners	Owner 100.00%	7,959
1923	Various Little Pittsburg Owners	Owner 100.00%	7,958
1924	Various Little Pittsburg Owners	Owner 100.00%	7,958
1925	Various Little Pittsburg Owners	Owner 100.00%	7,958
1926	Various Little Pittsburg Owners	Owner 100.00%	7,958
1927	Various Little Pittsburg Owners	Owner 100.00%	7,958
1928	Various Little Pittsburg Owners	Owner 100.00%	7,958
1929	Various Little Pittsburg Owners	Owner 100.00%	7,958
1930	Various Little Pittsburg Owners	Owner 100.00%	7,958
1931	Various Little Pittsburg Owners	Owner 100.00%	7,958
1932	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1933	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1934	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1935	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1936	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1937	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1938	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1939	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1940	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1941	Lessee Mining Company	Operator 0.00%	0
	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1942	Denver Development Co.	Operator 0.00%	0
	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1943	Denver Development Co.	Operator 0.00%	0
	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1944	Denver Development Co.	Operator 0.00%	0
	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1945	Denver Development Co.	Operator 0.00%	0
	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1946	Denver Development Co.	Operator 0.00%	0
	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1947	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1948	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1949	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1950	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1951	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1952	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1953	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958

12/11/97

1954	Pine Creek Lead-Zinc Mining Co.	Owner	100.00%	7,958
1955	Pine Creek Lead-Zinc Mining Co.	Owner	100.00%	7,958

Total Short Tons of Mined Ore:				318,327
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Pine Creek Lead-Zinc Mining Co.	190,992	60.00%
Various Little Pittsburg Owners	127,335	40.00%
Lessee Mining Company	0	0.00%
Denver Development Co.	0	0.00%

LITTLE PITTSBURG MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures represent Jasberg's total (Mines Grouped by Location, Sheet II, p. 11) divided by the number of years of production provided by Mitchell and Bennett. Total short tons from this mine according to Mitchell and Bennett is 320,674 (p. 10), or 2,347 tons more than Jasberg's total. HRA is unable to account for the 2,347-ton discrepancy between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1916-1931, Various Little Pittsburg owners. Sources note mine production but do not identify companies. See U.S. Geological Survey, *Mineral Resources of the United States* (1915, p. 560; 1916, p. 601; 1926, p. 453; 1929, p. 410; 1930, p. 659); Unpublished Annual Inspector Reports by Mine (1931, Little Pittsburg).

1932-1940, Pine Creek Lead-Zinc Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1932, p. 240; 1939, p. 279); Unpublished Annual Inspector Reports by Mine (1933-Little Pittsburg).

1941, Pine Creek Lead-Zinc Mining Co., owner, and Lessee Mining Co., operator. See U.S. Geological Survey, *Mineral Resources of the United States* (1941, p. 357); Unpublished Annual Inspector Reports by Mine (1941-Little Pittsburg).

1942-1946, Pine Creek Lead-Zinc Mining Co., owner, and Denver Development Co., operator. See Bureau of Mines 1946 report, p. 3, in Little Pittsburg Mine File; Unpublished Annual Inspector Reports by Mine (1943-Little Pittsburg); U.S. Geological Survey, *Mineral Resources of the United States* (1942, p. 386; 1943, p. 379; 1944, p. 363; 1945, p. 379; 1946, p. 1448)

1947-1955, Pine Creek Lead-Zinc Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1948, p. 1510; 1949, p. 1482; 1952, p. 305; 1953, p. 378; 1955, p. 365); Unpublished Annual Inspector Reports by Mine (1948-1950-Little Pittsburg)

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1941-1946, HRA attributed all production to owner because operators could not be linked to Defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Pine Creek Lead-Zinc Mining Co. merged with Mascot Silver-Lead Co., a Defendant, in 1960.

Various Little Pittsburg Mine Owners (early period) production is included in Mascot Silver-Lead Co.'s share as current owner and successor in interest.

Draft Defendant Company Report

Nabob Silver-Lead Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Denver Vein	1923 — 1944	13,000
Nabob	1907 — 1907	127,911
Total Tons of Mined Ore:		140,911
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		0.16%

The above defendant company is successor in interest to the following owner / operators:

Nabob Consolidated Mining Co.
Nabob Mining Co.
Nabob Silver-Lead Company
Various Denver Vein Owners
Various Nabob Mine Owners

Draft Mine Production Report

Denver Vein Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Various Denver Vein Owners	Owner	449
1917	Nabob Mining Co.	Owner	449
1918	Nabob Consolidated Mining Co.	Owner	449
1919	Nabob Consolidated Mining Co.	Owner	449
1920	Nabob Consolidated Mining Co.	Owner	449
1921	Nabob Consolidated Mining Co.	Owner	449
1922	Nabob Consolidated Mining Co.	Owner	449
1923	Nabob Silver-Lead Company	Owner	449
1924	Nabob Silver-Lead Company	Owner	448
1925	Nabob Silver-Lead Company	Owner	448
1926	Nabob Silver-Lead Company	Owner	448
1927	Nabob Silver-Lead Company	Owner	448
1928	Nabob Silver-Lead Company	Owner	448
1929	Nabob Silver-Lead Company	Owner	448
1930	Nabob Silver-Lead Company	Owner	448
1931	Nabob Silver-Lead Company	Owner	448
1932	Nabob Silver-Lead Company	Owner	448
1933	Nabob Silver-Lead Company	Owner	448
1934	Nabob Silver-Lead Company	Owner	448
1935	Nabob Silver-Lead Company	Owner	448
1936	Nabob Silver-Lead Company	Owner	448
1937	Nabob Silver-Lead Company	Owner	448
1938	Nabob Silver-Lead Company	Owner	448
1939	Nabob Silver-Lead Company	Owner	448
1940	Nabob Silver-Lead Company	Owner	448
1941	Nabob Silver-Lead Company	Owner	448
1942	Nabob Silver-Lead Company	Owner	448
1943	Nabob Silver-Lead Company	Owner	448
1944	Nabob Silver-Lead Company	Owner	448
Total Short Tons of Mined Ore:			13,000

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Nabob Silver-Lead Company	9,857	75.82%
Nabob Consolidated Mining Co.	2,245	17.27%
Various Denver Vein Owners	449	3.45%
Nabob Mining Co.	449	3.45%

DENVER VEIN MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures represent Jasberg's total divided by the number of years of production provided by Mitchell and Bennett. Total short tons from this mines is 13,000 according to Mitchell and Bennett (p. 10) and Peter Jasberg (Mines Grouped by Location Sheet II, p. 5).

SOURCES OF OWNERS AND OPERATORS

1916, Various Denver Vein Owners. See Inspector of Mines, *Mining Industry of Idaho* (1916, p. 22).

1917, Nabob Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1917, p. 60).

1918-1922, Nabob Consolidated Mining Co., owner. See Mines Information Bureau, "Mines Handbook" (1918, p. 788; 1920, p. 729; 1920, p. 716); Inspector of Mines, *Mining Industry of Idaho* (1918, p. 73); Unpublished Annual Inspector Reports by Mine (1918-Nabob; 1919-Nabob)

1923-1944, Nabob Silver-Lead Co., owner. See Unpublished Annual Inspector Reports by Mine (1923-Nabob; 1924-Nabob; 1927 - 1930-Nabob; 1932 - 1939-Nabob; 1941 - 1944-Nabob); Mines Information Bureau "Mines Handbook" (1931, p. 1067)

COMPANY-DEFENDANT RELATIONSHIPS

Nabob Silver-Lead Co. is a defendant.

Production of Various Denver Vein Mine owners, Nabob Mining Co., and Nabob Consolidated Mining Co. is included in the share of Nabob Silver-Lead Co. as current owner and successor in interest.

Draft Mine Production Report

Nabob Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1907	Various Nabob Mine Owners	Owner	100.00% 39
1916	Nabob Mining Co.	Owner	100.00% 36
1917	Nabob Mining Co.	Owner	100.00% 398
1919	Nabob Consolidated Mining Co.	Owner	100.00% 25
1920	Nabob Consolidated Mining Co.	Owner	100.00% 5,900
1924	Nabob Silver-Lead Company	Owner	100.00% 10,307
1925	Nabob Silver-Lead Company	Owner	100.00% 6,835
1926	Nabob Silver-Lead Company	Owner	100.00% 38
1941	Nabob Silver-Lead Company	Owner	100.00% 1,200
1943	Nabob Silver-Lead Company	Owner	100.00% 250
1944	Lynch-Pine Creek Mining Co.	Operator	0.00% 0
	Nabob Silver-Lead Company	Owner	100.00% 16,248
1945	Lynch-Pine Creek Mining Co.	Operator	0.00% 0
	Nabob Silver-Lead Company	Owner	100.00% 3,990
1946	Nabob Silver-Lead Company	Owner	100.00% 8,000
1947	Nabob Silver-Lead Company	Owner	100.00% 8,000
1948	Nabob Silver-Lead Company	Owner	100.00% 5
1949	Nabob Silver-Lead Company	Owner	100.00% 6,616
1950	Nabob Silver-Lead Company	Owner	100.00% 5,100
1951	Nabob Silver-Lead Company	Owner	100.00% 456
1952	Nabob Silver-Lead Company	Owner	100.00% 7,852
1953	Nabob Silver-Lead Company	Owner	100.00% 3,703
1954	Nabob Silver-Lead Company	Owner	100.00% 5,600
1955	Nabob Silver-Lead Company	Owner	100.00% 8,850
1956	Nabob Silver-Lead Company	Owner	100.00% 2,000
1957	Nabob Silver-Lead Company	Owner	100.00% 7,750
1958	Nabob Silver-Lead Company	Owner	100.00% 33
1959	Nabob Silver-Lead Company	Owner	50.00% 4,475
	Sidney Mining Co.	Operator	50.00% 4,475
1960	Nabob Silver-Lead Company	Owner	50.00% 1,181
	Sidney Mining Co.	Operator	50.00% 1,181
1964	Nabob Silver-Lead Company	Owner	100.00% 437
1965	Nabob Silver-Lead Company	Owner	100.00% 2,079
1966	Nabob Silver-Lead Company	Owner	100.00% 1,569
1967	Nabob Silver-Lead Company	Owner	100.00% 936
1968	Nabob Silver-Lead Company	Owner	50.00% 33
	Sunshine Mining Co.	Operator	50.00% 33
1969	Nabob Silver-Lead Company	Owner	50.00% 21
	Sunshine Mining Co.	Operator	50.00% 21
1975	Nabob Silver-Lead Company	Owner	50.00% 450
	Sunshine Mining Co.	Operator	50.00% 450
1976	Nabob Silver-Lead Company	Owner	100.00% 2,500
1977	Nabob Silver-Lead Company	Owner	100.00% 5,000

12/11/97

Total Short Tons of Mined Ore:**134,069**

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Nabob Silver-Lead Company	121,513 90.63%
Nabob Consolidated Mining Co.	5,925 4.42%
Sidney Mining Co.	5,656 4.22%
Sunshine Mining Co.	503 0.38%
Nabob Mining Co.	434 0.32%
Various Nabob Mine Owners	39 0.03%
Lynch-Pine Creek Mining Co.	0 0.00%

12/11/97

NABOB MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Idaho Geological Survey's File on Nabob and were compiled by Mitchell and Bennett from U.S. Bureau of Mines data. Total short tons from this mine according to Mitchell and Bennett is 134,069 (p. 10).

SOURCES OF OWNERS AND OPERATORS

1907, Various Nabob Mine owners

1916-1917, Nabob Mining Co., owner. See Unpublished Annual Inspector Reports by Mine (1917-Nabob)

1919-1920, Nabob Consolidated Mining Co., owner. See Unpublished Annual Inspector Reports by Mine (1919-Nabob); U.S. Geological Survey, *Mineral Resources of the United States* (1920, p. 258)

1924-1926, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1923, p. 167; 1924, p. 185; 1926, p. 208)

1941-1943, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1941, p. 226; 1943, p. 209)

1944-1945, Nabob Silver-Lead Co., owner, and Lynch-Pine Creek Mining Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1944, p. 175; 1945, p. 380)

1946-1958, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1946, p. 214; 1947, p. 197; 1948, p. 205; 1949, p. 197; 1957, p. 128; 1958, p. 89)

1959-1960, Nabob Silver-Lead Co., owner, and Sidney Mining Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1958, p. 89; 1960, p. 73)

1964-1967, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1965, p. 76).

1968-1975, Nabob Silver-Lead Co., owner, and Sunshine Mining Co., operator. See Corporate Annual Reports (1967-Sunshine; 1968-Sunshine; 1970-Sunshine); Idaho Inspector of Mines, *Mining Industry of Idaho* (1971, p. 83); Sunshine Precious Metal, Inc.'s 104(e) Response

1976-1977, Nabob Silver-Lead Co., owner. See Sunshine Precious Metal, Inc.'s 104(e) Response

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1944-1945, HRA attributed all production to owner because operator could not be linked to a Defendant. 1959-1960, HRA divided production equally between the owner and the operator because both are Defendants. 1968-1975, HRA divided production equally between the owner and the operator because both can be linked to a Defendant.

COMPANY-DEFENDANT RELATIONSHIPS

Nabob Silver-Lead Co. is a Defendant.

Sidney Mining Co. is a Defendant.

Sunshine Mining Co. is linked to Sunshine Mining and Refining Co., a Defendant.

Production of Various Nabob Mine owners, Nabob Mining Co., and Nabob Consolidated Mining Co. is included in the share of Nabob Silver-Lead Co. as current owner and successor in interest.

Nevada-Stewart Mining Co.

This company was a shipper of concentrates to the Bunker Hill facility. It does not have a share in the *production* of mined ore.

Philipp Brothers Inc.

Philipp Brothers, Inc.

This company was a shipper of concentrates to the Bunker Hill facility. It does not have a share in the *production* of mined ore.

Sidney Mining Co.

Draft Defendant Company Report

Sidney Mining Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Nabob	1959 — 1960	5,656
Sidney	1921 — 1970	1,071,261
Total Tons of Mined Ore:		1,076,917
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		1.19%

The above defendant company is successor in interest to the following owner / operators:

Sidney Mining Co.

Draft Mine Production Report

Nabob Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1907	Various Nabob Mine Owners	Owner	100.00% 39
1916	Nabob Mining Co.	Owner	100.00% 36
1917	Nabob Mining Co.	Owner	100.00% 398
1919	Nabob Consolidated Mining Co.	Owner	100.00% 25
1920	Nabob Consolidated Mining Co.	Owner	100.00% 5,900
1924	Nabob Silver-Lead Company	Owner	100.00% 10,307
1925	Nabob Silver-Lead Company	Owner	100.00% 6,835
1926	Nabob Silver-Lead Company	Owner	100.00% 38
1941	Nabob Silver-Lead Company	Owner	100.00% 1,200
1943	Nabob Silver-Lead Company	Owner	100.00% 250
1944	Lynch-Pine Creek Mining Co.	Operator	0.00% 0
	Nabob Silver-Lead Company	Owner	100.00% 16,248
1945	Lynch-Pine Creek Mining Co.	Operator	0.00% 0
	Nabob Silver-Lead Company	Owner	100.00% 3,990
1946	Nabob Silver-Lead Company	Owner	100.00% 8,000
1947	Nabob Silver-Lead Company	Owner	100.00% 8,000
1948	Nabob Silver-Lead Company	Owner	100.00% 5
1949	Nabob Silver-Lead Company	Owner	100.00% 6,616
1950	Nabob Silver-Lead Company	Owner	100.00% 5,100
1951	Nabob Silver-Lead Company	Owner	100.00% 456
1952	Nabob Silver-Lead Company	Owner	100.00% 7,852
1953	Nabob Silver-Lead Company	Owner	100.00% 3,703
1954	Nabob Silver-Lead Company	Owner	100.00% 5,600
1955	Nabob Silver-Lead Company	Owner	100.00% 8,850
1956	Nabob Silver-Lead Company	Owner	100.00% 2,000
1957	Nabob Silver-Lead Company	Owner	100.00% 7,750
1958	Nabob Silver-Lead Company	Owner	100.00% 33
1959	Nabob Silver-Lead Company	Owner	50.00% 4,475
	Sidney Mining Co.	Operator	50.00% 4,475
1960	Nabob Silver-Lead Company	Owner	50.00% 1,181
	Sidney Mining Co.	Operator	50.00% 1,181
1964	Nabob Silver-Lead Company	Owner	100.00% 437
1965	Nabob Silver-Lead Company	Owner	100.00% 2,079
1966	Nabob Silver-Lead Company	Owner	100.00% 1,569
1967	Nabob Silver-Lead Company	Owner	100.00% 936
1968	Nabob Silver-Lead Company	Owner	50.00% 33
	Sunshine Mining Co.	Operator	50.00% 33
1969	Nabob Silver-Lead Company	Owner	50.00% 21
	Sunshine Mining Co.	Operator	50.00% 21
1975	Nabob Silver-Lead Company	Owner	50.00% 450
	Sunshine Mining Co.	Operator	50.00% 450
1976	Nabob Silver-Lead Company	Owner	100.00% 2,500
1977	Nabob Silver-Lead Company	Owner	100.00% 5,000

Total Short Tons of Mined Ore:

134,069

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Nabob Silver-Lead Company	121,513	90.63%
Nabob Consolidated Mining Co.	5,925	4.42%
Sidney Mining Co.	5,656	4.22%
Sunshine Mining Co.	503	0.38%
Nabob Mining Co.	434	0.32%
Various Nabob Mine Owners	39	0.03%
Lynch-Pine Creek Mining Co.	0	0.00%

NABOB MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Idaho Geological Survey's File on Nabob and were compiled by Mitchell and Bennett from U.S. Bureau of Mines data. Total short tons from this mine according to Mitchell and Bennett is 134,069 (p. 10).

SOURCES OF OWNERS AND OPERATORS

1907, Various Nabob Mine owners

1916-1917, Nabob Mining Co., owner. See Unpublished Annual Inspector Reports by Mine (1917-Nabob)

1919-1920, Nabob Consolidated Mining Co., owner. See Unpublished Annual Inspector Reports by Mine (1919-Nabob); U.S. Geological Survey, *Mineral Resources of the United States* (1920, p. 258)

1924-1926, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1923, p. 167; 1924, p. 185; 1926, p. 208)

1941-1943, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1941, p. 226; 1943, p. 209)

1944-1945, Nabob Silver-Lead Co., owner, and Lynch-Pine Creek Mining Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1944, p. 175; 1945, p. 380)

1946-1958, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1946, p. 214; 1947, p. 197; 1948, p. 205; 1949, p. 197; 1957, p. 128; 1958, p. 89)

1959-1960, Nabob Silver-Lead Co., owner, and Sidney Mining Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1958, p. 89; 1960, p. 73)

1964-1967, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1965, p. 76).

1968-1975, Nabob Silver-Lead Co., owner, and Sunshine Mining Co., operator. See Corporate Annual Reports (1967-Sunshine; 1968-Sunshine; 1970-Sunshine); Idaho Inspector of Mines, *Mining Industry of Idaho* (1971, p. 83); Sunshine Precious Metal, Inc.'s 104(e) Response

1976-1977, Nabob Silver-Lead Co., owner. See Sunshine Precious Metal, Inc.'s 104(e) Response

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1944-1945, HRA attributed all production to owner because operator could not be linked to a Defendant. 1959-1960, HRA divided production equally between the owner and the operator because both are Defendants. 1968-1975, HRA divided production equally between the owner and the operator because both can be linked to a Defendant.

COMPANY-DEFENDANT RELATIONSHIPS

Nabob Silver-Lead Co. is a Defendant.

Sidney Mining Co. is a Defendant.

Sunshine Mining Co. is linked to Sunshine Mining and Refining Co., a Defendant.

Production of Various Nabob Mine owners, Nabob Mining Co., and Nabob Consolidated Mining Co. is included in the share of Nabob Silver-Lead Co. as current owner and successor in interest.

Draft Mine Production Report

Sidney Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1921	Sidney Mining Co.	Owner 100.00%	437
1922	Sidney Mining Co.	Owner 100.00%	585
1923	Sidney Mining Co.	Owner 100.00%	88
1925	Sidney Leasing Co.	Operator 0.00%	0
	Sidney Mining Co.	Owner 100.00%	1,982
1926	Sidney Leasing Co.	Operator 0.00%	0
	Sidney Mining Co.	Owner 100.00%	19,525
1927	Sidney Leasing Co.	Operator 0.00%	0
	Sidney Mining Co.	Owner 100.00%	87,636
1928	Sidney Leasing Co.	Operator 0.00%	0
	Sidney Mining Co.	Owner 100.00%	29,457
1929	Sidney Leasing Co.	Operator 0.00%	0
	Sidney Mining Co.	Owner 100.00%	46,665
1930	Sidney Leasing Co.	Operator 0.00%	0
	Sidney Mining Co.	Owner 100.00%	46,740
1931	Sidney Leasing Co.	Operator 0.00%	0
	Sidney Mining Co.	Owner 100.00%	24,077
1932	Sidney Leasing Co.	Operator 0.00%	0
	Sidney Mining Co.	Owner 100.00%	11,456
1935	Sidney Mining Co.	Owner 100.00%	6,015
1936	Sidney Mining Co.	Owner 100.00%	25,618
1937	Sidney Mining Co.	Owner 100.00%	18,569
1938	Sidney Mining Co.	Owner 100.00%	686
1942	Sidney Mining Co.	Owner 100.00%	1,634
1943	Sidney Mining Co.	Owner 100.00%	7,265
1944	Sidney Mining Co.	Owner 100.00%	12,215
1945	Sidney Mining Co.	Owner 100.00%	17,286
1946	Sidney Mining Co.	Owner 100.00%	24,562
1947	Sidney Mining Co.	Owner 100.00%	70,865
1948	Sidney Mining Co.	Owner 100.00%	89,724
1949	Sidney Mining Co.	Owner 100.00%	63,499
1950	Sidney Mining Co.	Owner 100.00%	85,731
1951	Sidney Mining Co.	Owner 100.00%	71,951
1952	Sidney Mining Co.	Owner 100.00%	67,844
1953	Sidney Mining Co.	Owner 100.00%	60,413
1954	Sidney Mining Co.	Owner 100.00%	32,040
1955	Sidney Mining Co.	Owner 100.00%	23,322
1956	Sidney Mining Co.	Owner 100.00%	38,847
1957	Sidney Mining Co.	Owner 100.00%	44,461
1958	Sidney Mining Co.	Owner 100.00%	27,400
1959	Sidney Mining Co.	Owner 100.00%	7,200
1960	Sidney Mining Co.	Owner 100.00%	1,143
1962	Sidney Mining Co.	Owner 100.00%	65
1965	Sidney Mining Co.	Owner 100.00%	820

12/11/97

1966	Sidney Mining Co.	Owner	100.00%	389
1967	Sidney Mining Co.	Owner	100.00%	431
1968	Sidney Mining Co.	Owner	100.00%	1,853
1969	Sidney Mining Co.	Owner	100.00%	683
1970	Sidney Mining Co.	Owner	100.00%	82
Total Short Tons of Mined Ore:				1,071,261

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Sidney Mining Co.	1,071,261	100.00%
Sidney Leasing Co.	0	0.00%

SIDNEY MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-8, pp. 1-2. Total short tons from this mine according to Mitchell and Bennett is 1,071,197, or 64 tons less than Jasberg's total (p. 10). Note: there is a three-year discrepancy in relation to the number of years reported in each source (Jasberg: 1921-1970, Mitchell and Bennett: 1921-1967). HRA is unable to account for the 64-ton discrepancy between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1921-1923, Sidney Mining Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1920, p. 111; 1922, p. 160; 1923, p. 174)

1925-1932, Sidney Mining Co., owner, and Sidney Leasing Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1925, p. 216; 1926, p. 214; 1929, p. 214)

1935-1970, Sidney Mining Co., owner. See Unpublished Annual Reports by Mine (1935-Sidney; 1936-Sidney; 1937-Sidney; 1938-Sidney; 1942-Sidney); Idaho Inspector of Mines, *Mining Industry of Idaho* (1937, p. 250; 1945-p. 219; 1947, p. 200; 1948, p. 209; 1948, p. 201; 1958, p. 92; 1960, p. 76; 1962, p. 85; 1965, p. 77; 1966, p. 96; 1968, p. 126; 1969-1970, p. 157)

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1925-1932, HRA attributed all production to owner because operator could not be linked to a Defendant.

COMPANY-DEFENDANT RELATIONSHIPS

Sidney Mining Co. is a Defendant.

Silver Bowl, Inc.

Draft Defendant Company Report

Silver Bowl, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Crown Point	1916 — 1919	6,488
Senator Stewart	1904 — 1922	1,041,914
Total Tons of Mined Ore:		1,048,402
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		1.16%

The above defendant company is successor in interest to the following owner / operators:

Silver Bowl, Inc.

Stewart Mining Co.

Stewart Silver-Lead Co.

Draft Mine Production Report

Crown Point Mine

Drainage: South Fork of CDA in the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1901	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1902	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1903	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1904	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1905	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1906	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1907	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1908	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1909	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1910	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1911	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1912	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1913	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1914	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1915	Coeur d' Alene Development Co.	Owner 100.00%	1,622
1916	Coeur d' Alene Development Co.	Owner 0.00%	0
	Stewart Mining Co.	Operator 100.00%	1,622
1917	Coeur d' Alene Development Co.	Owner 0.00%	0
	Stewart Mining Co.	Operator 100.00%	1,622
1918	Coeur d' Alene Development Co.	Owner 0.00%	0
	Stewart Mining Co.	Operator 100.00%	1,622
1919	Coeur d' Alene Development Co.	Owner 0.00%	0
	Stewart Mining Co.	Operator 100.00%	1,622
1920	Unknown	Owner 100.00%	1,622
1921	Unknown	Owner 100.00%	1,622
1922	Unknown	Owner 100.00%	1,622
1923	Unknown	Owner 100.00%	1,622
1924	Unknown	Owner 100.00%	1,622
1925	Unknown	Owner 100.00%	1,622
1926	Unknown	Owner 100.00%	1,622
1927	Unknown	Owner 100.00%	1,622
1928	Unknown	Owner 100.00%	1,621
1929	Unknown	Owner 100.00%	1,621
1930	Unknown	Owner 100.00%	1,621
1931	Unknown	Owner 100.00%	1,621
1932	Unknown	Owner 100.00%	1,621
1933	Unknown	Owner 100.00%	1,621
1934	Unknown	Owner 100.00%	1,621
1935	Unknown	Owner 100.00%	1,621
1936	Unknown	Owner 100.00%	1,621
1937	Unknown	Owner 100.00%	1,621
1938	Unknown	Owner 100.00%	1,621
1939	Unknown	Owner 100.00%	1,621
1940	Unknown	Owner 100.00%	1,621

12/10/97

Total Short Tons of Mined Ore:

64,867

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Unknown	34,049	52.49%
Coeur d' Alene Development Co.	24,330	37.51%
Stewart Mining Co.	6,488	10.00%

CROWN POINT MINE PRODUCTION ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year-by-year figures represent Pete Jasberg's total divided by the number of years of production provided by Mitchell and Bennett. Total short tons of mined ore and year-by-year production figures are from Jasberg's data, Sheet "Mines Grouped by Location," p. 9. Total figure of short tons from this mine according to Mitchell and Bennett is 63,098 (p. 13). HRA is unable to account for the difference between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1901-1915, Coeur d'Alene Development Co., owner. See Shoshone County Records, *Deed Book A*, p. 204.

1916-1919, Coeur d'Alene Development Co., owner, and Stewart Mining Co., operator. See U. S. Geological Survey, *Mineral Resources of the United States* (1916, p. 601; 1917, p. 491) and Mines Information Bureau, *Mines Handbook* (1918, pp. 801-803; 1920, pp. 692, 729-730).

1920-1940, Unknown. Before 1920, Stewart Mining Co. was in the process of acquiring Coeur d'Alene Development Co.'s property. Stewart Mining Co. apparently did not complete its purchase. By 1931, the company (identified as Stewart Silver Lead Co.) had lost control of the Coeur d'Alene Development Co. See Mines Information Bureau, *Mines Handbook* (1931, p. 1116).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1916-1919, HRA allocated production to the operator, since it is linked to Silver Bowl, Inc., a defendant. The owner has not been linked to a defendant.

COMPANY-DEFENDANT RELATIONSHIPS

The "Unknown" and the Coeur d'Alene Development Co. has not been linked to a defendant. Their production has not been included in the total ore mined in the basin.

Stewart Mining Co. has been linked to Silver Bowl, Inc., a defendant. Production during the years Stewart Mining Co. operated the mine has been attributed to Silver Bowl, Inc.

Draft Mine Production Report

Senator Stewart Mine

Drainage: South Fork of CDA in the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1904	Stewart Mining Co.	Owner 100.00%	300
1905	Stewart Mining Co.	Owner 100.00%	2,490
1906	Stewart Mining Co.	Owner 100.00%	100
1907	Stewart Mining Co.	Owner 100.00%	912
1910	Stewart Mining Co.	Owner 100.00%	55,346
1911	Stewart Mining Co.	Owner 100.00%	147,503
1912	Stewart Mining Co.	Owner 100.00%	184,344
1913	Stewart Mining Co.	Owner 100.00%	174,675
1914	Stewart Mining Co.	Owner 100.00%	189,615
1915	Stewart Mining Co.	Owner 100.00%	180,023
1916	Stewart Mining Co.	Owner 100.00%	67,523
1917	Stewart Mining Co.	Owner 100.00%	30,331
1918	Stewart Mining Co.	Owner 100.00%	1,094
1919	Stewart Mining Co.	Owner 100.00%	240
1920	Stewart Mining Co.	Owner 100.00%	147
1921	Stewart Mining Co.	Owner 100.00%	61
1922	Stewart Mining Co.	Owner 100.00%	27
1924	Stewart Silver-Lead Co.	Owner 100.00%	12
1925	Stewart Silver-Lead Co.	Owner 100.00%	26
1926	Stewart Silver-Lead Co.	Owner 100.00%	1,007
1927	Stewart Silver-Lead Co.	Owner 100.00%	547
1928	Stewart Silver-Lead Co.	Owner 100.00%	1,158
1930	Stewart Silver-Lead Co.	Owner 100.00%	43
1931	Stewart Silver-Lead Co.	Owner 100.00%	115
1946	Silver Bowl, Inc.	Owner 100.00%	894
1947	Silver Bowl, Inc.	Owner 100.00%	1,074
1948	Silver Bowl, Inc.	Owner 100.00%	457
1950	Silver Bowl, Inc.	Owner 100.00%	1,760
1951	Silver Bowl, Inc.	Owner 100.00%	90
Total Short Tons of Mined Ore:			1,041,914

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Stewart Mining Co.	1,034,731 99.31%
Silver Bowl, Inc.	4,275 0.41%
Stewart Silver-Lead Co.	2,908 0.28%

SENATOR STEWART MINE PRODUCTION

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-7, pp. 1-2. Total short tons from this mine according to Mitchell and Bennett is 1,041, 814 (p. 14), or 100 tons less than Jasberg's total. HRA is unable to account for the 100-ton discrepancy between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1904-1922, Stewart Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1905, p. 241; 1909, p. 357; 1910, p. 468; 1911, p. 601; 1912, p. 736; 1913, p. 787; 1914, p. 635; 1915, p. 559; 1917, p. 491; 1919, p. 483; 1921, p. 418); Inspector of Mines, *Mining Industry of Idaho* (1906, p. 150; 1907, p. 176; 1909, p. 102; 1922, p. 163)

1924-1931, Stewart Silver-Lead Co., owner. See U.S. Geological Survey, *Mineral Resources* (1926, p. 453; 1928, p. 686) Inspector of Mines, *Mining Industry of Idaho* (1924, p. 195; 1927, p. 198; 1931, p. 214)

1946-1951, Silver Bowl, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* (1943, p. 212; 1947, p. 200) U.S. Geological Survey, *Mineral Resource of the United States* (1948, p. 1448; 1950, p. 1500)

COMPANY-DEFENDANT RELATIONSHIPS

Production of Stewart Mining Co. and Stewart Silver-Lead Co. is included in the share of Silver Bowl, Inc. as current owner and successor in interest.

Silver Bowl, Inc. is a Defendant.

Silver Mountain Lead Mines, Inc.

This company is a wholly-owned subsidiary of Hecla Mining Co. All mined ore production by this company is included in Hecla's share.

Sunshine Mining and Refining Co.,
Inc.

Draft Defendant Company Report

Sunshine Mining and Refining Company, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Highland Surprise	1971 -- 1971	107
Nabob	1968 -- 1975	503
Sunshine	1904 -- 1925	7,549,634
Total Tons of Mined Ore:		7,550,244
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		8.32%

The above defendant company is successor in interest to the following owner / operators:

Blake Brothers
Silver Dollar Mining Co.
Sunshine Mining Co.
Yankee Girl Mining Co.

Draft Mine Production Report

Highland Surprise Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1904	Various Highland Surprise Owners	Owner 100.00%	18
1905	Various Highland Surprise Owners	Owner 100.00%	15
1907	Various Highland Surprise Owners	Owner 100.00%	250
1910	Surprise Mining & Milling Co., Ltd.	Owner 100.00%	89
1911	Surprise Mining & Milling Co., Ltd.	Owner 100.00%	3,200
1912	Surprise Mining & Milling Co., Ltd.	Owner 100.00%	1,608
1914	Highland Surprise Consolidated Mining Co.	Owner 100.00%	32
1915	Highland Surprise Consolidated Mining Co.	Owner 100.00%	700
1916	Highland Surprise Consolidated Mining Co.	Owner 100.00%	18,458
1917	Highland Surprise Consolidated Mining Co.	Owner 100.00%	20,324
1922	Highland Surprise Consolidated Mining Co.	Owner 100.00%	103
1923	Highland Surprise Consolidated Mining Co.	Owner 100.00%	221
1924	Highland Surprise Consolidated Mining Co.	Owner 100.00%	64
1925	Highland Surprise Consolidated Mining Co.	Owner 100.00%	11,751
1926	Highland Surprise Consolidated Mining Co.	Owner 100.00%	31,065
1927	Highland Surprise Consolidated Mining Co.	Owner 100.00%	12,695
41	Highland Surprise Consolidated Mining Co.	Owner 100.00%	21,000
42	Highland Surprise Consolidated Mining Co.	Owner 100.00%	14,474
943	Highland Surprise Consolidated Mining Co.	Owner 100.00%	18,130
1944	Highland Surprise Consolidated Mining Co.	Owner 100.00%	34,857
1945	Highland Surprise Consolidated Mining Co.	Owner 100.00%	30,528
1946	Highland Surprise Consolidated Mining Co.	Owner 100.00%	25,940
1947	Highland Surprise Consolidated Mining Co.	Owner 100.00%	40,888
1948	Highland Surprise Consolidated Mining Co.	Owner 100.00%	72,925
1949	Highland Surprise Consolidated Mining Co.	Owner 100.00%	52,313
1950	Highland Surprise Consolidated Mining Co.	Owner 100.00%	32,100
1951	Highland Surprise Consolidated Mining Co.	Owner 100.00%	25,000
1952	Highland Surprise Consolidated Mining Co.	Owner 100.00%	25,879
1953	Highland Surprise Consolidated Mining Co.	Owner 100.00%	15,065
1954	Highland Surprise Consolidated Mining Co.	Owner 100.00%	6,679
1955	Highland Surprise Consolidated Mining Co.	Owner 100.00%	1,609
1956	Highland Surprise Consolidated Mining Co.	Owner 100.00%	361
1962	Highland Surprise Consolidated Mining Co.	Owner 100.00%	4
1966	Highland Surprise Consolidated Mining Co.	Owner 100.00%	103
1967	Highland Surprise Consolidated Mining Co.	Owner 100.00%	45
1971	Highland Surprise Consolidated Mining Co.	Owner 50.00%	107
	Sunshine Mining Co.	Operator 50.00%	107

Total Short Tons of Mined Ore:	518,706
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Highland Surprise Consolidated Mining Co.	513,420	98.98%
Surprise Mining & Milling Co., Ltd.	4,897	0.94%
Various Highland Surprise Owners	283	0.05%
Sunshine Mining Co.	107	0.02%

HIGHLAND SURPRISE MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet P-10, pp. 1-3. Total short tons from this mine according to Mitchell and Bennett matches Jasberg's total.

SOURCES OF OWNERS AND OPERATORS

1910-1912, Surprise Mining & Milling Co., Ltd., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1910, p. 468; 1911, p. 601; 1912, p. 737).

1914-1967, Highland Surprise Consolidated Mining Co., owner. See U.S. Geological Survey, *Mineral Resources of the United States* (1914, p. 638; 1915, p. 560; 1916, p. 601; 1917, p. 492); Idaho Inspector of Mines, *Mining Industry of Idaho* (1922, p. 144; 1924, p. 176; 1925, p. 200; 1926, p. 197; 1927, p. 210; 1941, p. 221); U.S. Geological Survey, *Mineral Resources of the United States*, 1943, p. 379; 1947, 1949, 1951, 1953, p. 349; 1956, p. 388; 1962, p. 361); Idaho Inspector of Mines, *Mining Industry of Idaho* (1950, p. 214; 1954, p. 132; 1955, p. 127; 1966, p. 93). These sources note various operators, but none could be linked to Defendants. Sidney Mining Co. had an operating agreement from 1954 to 1962, but it is unclear whether any production resulted from it. Mine was reported as "closed" in 1954, "idle" in 1955. Jim Doyle did "clean-up work" in 1956.

1971, Highland Surprise Consolidated Mining Co., owner; Sunshine Mining Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1968, p. 117).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1971, HRA divided production equally between the owner and the operator because both companies are Defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Surprise Mining & Milling Co. no longer exists. Production by this company and various Highland-Surprise Mine owners (early period) is included in Highland Surprise Consolidated Mining Co.'s share as current owner and successor in interest.

Highland Surprise Consolidated Mining Co. is a Defendant.
Sunshine Mining Co. was reorganized into Sunshine Mining and Refining Co., a Defendant.

Draft Mine Production Report

Nabob Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1907	Various Nabob Mine Owners	Owner 100.00%	39
1916	Nabob Mining Co.	Owner 100.00%	36
1917	Nabob Mining Co.	Owner 100.00%	398
1919	Nabob Consolidated Mining Co.	Owner 100.00%	25
1920	Nabob Consolidated Mining Co.	Owner 100.00%	5,900
1924	Nabob Silver-Lead Company	Owner 100.00%	10,307
1925	Nabob Silver-Lead Company	Owner 100.00%	6,835
1926	Nabob Silver-Lead Company	Owner 100.00%	38
1941	Nabob Silver-Lead Company	Owner 100.00%	1,200
1943	Nabob Silver-Lead Company	Owner 100.00%	250
1944	Lynch-Pine Creek Mining Co.	Operator 0.00%	0
	Nabob Silver-Lead Company	Owner 100.00%	16,248
1945	Lynch-Pine Creek Mining Co.	Operator 0.00%	0
	Nabob Silver-Lead Company	Owner 100.00%	3,990
1946	Nabob Silver-Lead Company	Owner 100.00%	8,000
1947	Nabob Silver-Lead Company	Owner 100.00%	8,000
1948	Nabob Silver-Lead Company	Owner 100.00%	5
1949	Nabob Silver-Lead Company	Owner 100.00%	6,616
1950	Nabob Silver-Lead Company	Owner 100.00%	5,100
1951	Nabob Silver-Lead Company	Owner 100.00%	456
1952	Nabob Silver-Lead Company	Owner 100.00%	7,852
1953	Nabob Silver-Lead Company	Owner 100.00%	3,703
1954	Nabob Silver-Lead Company	Owner 100.00%	5,600
1955	Nabob Silver-Lead Company	Owner 100.00%	8,850
1956	Nabob Silver-Lead Company	Owner 100.00%	2,000
1957	Nabob Silver-Lead Company	Owner 100.00%	7,750
1958	Nabob Silver-Lead Company	Owner 100.00%	33
1959	Nabob Silver-Lead Company	Owner 50.00%	4,475
	Sidney Mining Co.	Operator 50.00%	4,475
1960	Nabob Silver-Lead Company	Owner 50.00%	1,181
	Sidney Mining Co.	Operator 50.00%	1,181
1964	Nabob Silver-Lead Company	Owner 100.00%	437
1965	Nabob Silver-Lead Company	Owner 100.00%	2,079
1966	Nabob Silver-Lead Company	Owner 100.00%	1,569
1967	Nabob Silver-Lead Company	Owner 100.00%	936
1968	Nabob Silver-Lead Company	Owner 50.00%	33
	Sunshine Mining Co.	Operator 50.00%	33
1969	Nabob Silver-Lead Company	Owner 50.00%	21
	Sunshine Mining Co.	Operator 50.00%	21
1975	Nabob Silver-Lead Company	Owner 50.00%	450
	Sunshine Mining Co.	Operator 50.00%	450
1976	Nabob Silver-Lead Company	Owner 100.00%	2,500
1977	Nabob Silver-Lead Company	Owner 100.00%	5,000

Total Short Tons of Mined Ore:**134,069**

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Nabob Silver-Lead Company	121,513	90.63%
Nabob Consolidated Mining Co.	5,925	4.42%
Sidney Mining Co.	5,656	4.22%
Sunshine Mining Co.	503	0.38%
Nabob Mining Co.	434	0.32%
Various Nabob Mine Owners	39	0.03%
Lynch-Pine Creek Mining Co.	0	0.00%

NABOB MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Idaho Geological Survey's File on Nabob and were compiled by Mitchell and Bennett from U.S. Bureau of Mines data. Total short tons from this mine according to Mitchell and Bennett is 134,069 (p. 10).

SOURCES OF OWNERS AND OPERATORS

1907, Various Nabob Mine owners

1916-1917, Nabob Mining Co., owner. See Unpublished Annual Inspector Reports by Mine (1917-Nabob)

1919-1920, Nabob Consolidated Mining Co., owner. See Unpublished Annual Inspector Reports by Mine (1919-Nabob); U.S. Geological Survey, *Mineral Resources of the United States* (1920, p. 258)

1924-1926, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1923, p. 167; 1924, p. 185; 1926, p. 208)

1941-1943, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1941, p. 226; 1943, p. 209)

1944-1945, Nabob Silver-Lead Co., owner, and Lynch-Pine Creek Mining Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1944, p. 175; 1945, p. 380)

1946-1958, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1946, p. 214; 1947, p. 197; 1948, p. 205; 1949, p. 197; 1957, p. 128; 1958, p. 89)

1959-1960, Nabob Silver-Lead Co., owner, and Sidney Mining Co., operator. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1958, p. 89; 1960, p. 73)

1964-1967, Nabob Silver-Lead Co., owner. See Idaho Inspector of Mines, *Mining Industry of Idaho* (1965, p. 76).

1968-1975, Nabob Silver-Lead Co., owner, and Sunshine Mining Co., operator. See Corporate Annual Reports (1967-Sunshine; 1968-Sunshine; 1970-Sunshine); Idaho Inspector of Mines, *Mining Industry of Idaho* (1971, p. 83); Sunshine Precious Metal, Inc.'s 104(e) Response

1976-1977, Nabob Silver-Lead Co., owner. See Sunshine Precious Metal, Inc.'s 104(e) Response

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1944-1945, HRA attributed all production to owner because operator could not be linked to a Defendant. 1959-1960, HRA divided production equally between the owner and the operator because both are Defendants. 1968-1975, HRA divided production equally between the owner and the operator because both can be linked to a Defendant.

COMPANY-DEFENDANT RELATIONSHIPS

Nabob Silver-Lead Co. is a Defendant.

Sidney Mining Co. is a Defendant.

Sunshine Mining Co. is linked to Sunshine Mining and Refining Co., a Defendant.

Production of Various Nabob Mine owners, Nabob Mining Co., and Nabob Consolidated Mining Co. is included in the share of Nabob Silver-Lead Co. as current owner and successor in interest.

Draft Mine Production Report

Sunshine Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1904	Blake Brothers	Owner 100.00%	25
1905	Blake Brothers	Owner 100.00%	28
1908	Blake Brothers	Owner 100.00%	28
1912	Blake Brothers	Owner 100.00%	92
1913	Blake Brothers	Owner 100.00%	77
1914	Blake Brothers	Owner 100.00%	358
1915	Blake Brothers	Owner 100.00%	193
1916	Blake Brothers	Owner 100.00%	403
1917	Blake Brothers	Owner 50.00%	1,244
	Yankee Girl Mining Co.	Owner 50.00%	1,244
1918	Blake Brothers	Owner 50.00%	336
	Yankee Girl Mining Co.	Owner 50.00%	336
1919	Blake Brothers	Owner 50.00%	138
	Yankee Girl Mining Co.	Owner 50.00%	138
1920	Blake Brothers	Owner 50.00%	303
	Yankee Girl Mining Co.	Owner 50.00%	303
1921	Blake Brothers	Owner 34.00%	283
	Sunshine Mining Co.	Operator 33.00%	274
	Yankee Girl Mining Co.	Owner 33.00%	274
1922	Blake Brothers	Owner 34.00%	731
	Sunshine Mining Co.	Operator 33.00%	709
	Yankee Girl Mining Co.	Owner 33.00%	709
1923	Blake Brothers	Owner 34.00%	895
	Sunshine Mining Co.	Operator 33.00%	868
	Yankee Girl Mining Co.	Owner 33.00%	868
1924	Blake Brothers	Owner 34.00%	6,467
	Sunshine Mining Co.	Operator 33.00%	6,277
	Yankee Girl Mining Co.	Owner 33.00%	6,277
1925	Blake Brothers	Owner 34.00%	8,869
	Sunshine Mining Co.	Operator 33.00%	8,608
	Yankee Girl Mining Co.	Owner 33.00%	8,608
1926	Sunshine Mining Co.	Owner 100.00%	21,435
1927	Sunshine Mining Co.	Owner 100.00%	40,000
1928	Sunshine Mining Co.	Owner 100.00%	1,838
1929	Sunshine Mining Co.	Owner 100.00%	62,392
1930	Sunshine Mining Co.	Owner 100.00%	147,948
1931	Sunshine Mining Co.	Owner 100.00%	183,441
1932	Sunshine Mining Co.	Owner 100.00%	151,883
1933	Sunshine Mining Co.	Owner 100.00%	109,010
1934	Sunshine Mining Co.	Owner 100.00%	108,606
1935	Sunshine Mining Co.	Owner 100.00%	160,417
1936	Sunshine Mining Co.	Owner 100.00%	215,955
1937	Sunshine Mining Co.	Owner 100.00%	255,800
1938	Sunshine Mining Co.	Owner 100.00%	317,984

12/10/97

1939	Sunshine Mining Co.	Owner	100.00%	320,990
1940	Sunshine Mining Co.	Owner	100.00%	278,810
1941	Sunshine Mining Co.	Owner	100.00%	309,700
1942	Sunshine Mining Co.	Owner	100.00%	251,700
1943	Sunshine Mining Co.	Owner	100.00%	155,412
1944	Sunshine Mining Co.	Owner	100.00%	42,273
1945	Sunshine Mining Co.	Owner	100.00%	32,285
1946	Sunshine Mining Co.	Owner	100.00%	21,251
1947	Sunshine Mining Co.	Owner	100.00%	64,120
1948	Sunshine Mining Co.	Owner	100.00%	84,852
1949	Sunshine Mining Co.	Owner	100.00%	89,289
1950	Sunshine Mining Co.	Owner	100.00%	144,098
1951	Sunshine Mining Co.	Owner	100.00%	116,324
1952	Sunshine Mining Co.	Owner	100.00%	114,467
1953	Sunshine Mining Co.	Owner	100.00%	127,818
1954	Sunshine Mining Co.	Owner	100.00%	260,698
1955	Sunshine Mining Co.	Owner	100.00%	119,596
1956	Sunshine Mining Co.	Owner	100.00%	200,028
1957	Sunshine Mining Co.	Owner	100.00%	206,385
1958	Hecla Mining Co.	Operator	33.25%	77,128
	Silver Dollar Mining Co.	Operator	9.61%	22,292
	Sunshine Mining Co.	Owner	57.14%	132,544
1959	Hecla Mining Co.	Operator	33.25%	77,987
	Silver Dollar Mining Co.	Operator	9.61%	22,540
	Sunshine Mining Co.	Owner	57.14%	134,021
60	Hecla Mining Co.	Operator	33.25%	77,254
	Silver Dollar Mining Co.	Operator	9.61%	22,328
	Sunshine Mining Co.	Owner	57.14%	132,760
1961	Hecla Mining Co.	Operator	33.25%	62,817
	Silver Dollar Mining Co.	Operator	9.61%	18,156
	Sunshine Mining Co.	Owner	57.14%	107,951
1962	Hecla Mining Co.	Operator	33.25%	45,149
	Silver Dollar Mining Co.	Operator	9.61%	13,049
	Sunshine Mining Co.	Owner	57.14%	77,588
1963	Hecla Mining Co.	Operator	33.25%	44,102
	Silver Dollar Mining Co.	Operator	9.61%	12,746
	Sunshine Mining Co.	Owner	57.14%	75,789
1964	Hecla Mining Co.	Operator	33.25%	43,823
	Silver Dollar Mining Co.	Operator	9.61%	12,666
	Sunshine Mining Co.	Owner	57.14%	75,310
1965	Hecla Mining Co.	Operator	33.25%	56,114
	Silver Dollar Mining Co.	Operator	9.61%	16,218
	Sunshine Mining Co.	Owner	57.14%	96,431
1966	Hecla Mining Co.	Operator	33.25%	63,435
	Silver Dollar Mining Co.	Operator	9.61%	18,334
	Sunshine Mining Co.	Owner	57.14%	109,013
1967	Hecla Mining Co.	Operator	33.25%	79,772
	Silver Dollar Mining Co.	Operator	9.61%	23,056
	Sunshine Mining Co.	Owner	57.14%	137,087
1968	Hecla Mining Co.	Operator	33.25%	83,820
	Silver Dollar Mining Co.	Operator	9.61%	24,226
	Sunshine Mining Co.	Owner	57.14%	144,044

'969	Hecla Mining Co.	Operator	33.25%	90,279
	Silver Dollar Mining Co.	Operator	9.61%	26,093
	Sunshine Mining Co.	Owner	57.14%	155,144
1970	Hecla Mining Co.	Operator	33.25%	84,082
	Silver Dollar Mining Co.	Operator	9.61%	24,302
	Sunshine Mining Co.	Owner	57.14%	144,495
1971	Hecla Mining Co.	Operator	33.25%	86,070
	Silver Dollar Mining Co.	Operator	9.61%	24,876
	Sunshine Mining Co.	Owner	57.14%	147,911
1972	Hecla Mining Co.	Operator	33.25%	34,316
	Silver Dollar Mining Co.	Operator	9.61%	9,918
	Sunshine Mining Co.	Owner	57.14%	58,972
1973	Hecla Mining Co.	Operator	33.25%	41,077
	Silver Dollar Mining Co.	Operator	9.61%	11,872
	Sunshine Mining Co.	Owner	57.14%	70,590
1974	Hecla Mining Co.	Operator	33.25%	60,530
	Silver Dollar Mining Co.	Operator	9.61%	17,495
	Sunshine Mining Co.	Owner	57.14%	104,021
1975	Hecla Mining Co.	Operator	33.25%	75,111
	Silver Dollar Mining Co.	Operator	9.61%	21,709
	Sunshine Mining Co.	Owner	57.14%	129,078
1976	Hecla Mining Co.	Operator	33.25%	15,251
	Silver Dollar Mining Co.	Operator	9.61%	4,408
	Sunshine Mining Co.	Owner	57.14%	26,210
'977	Hecla Mining Co.	Operator	33.25%	51,576
	Silver Dollar Mining Co.	Operator	9.61%	14,907
	Sunshine Mining Co.	Owner	57.14%	88,633
1978	Hecla Mining Co.	Operator	33.25%	66,783
	Silver Dollar Mining Co.	Operator	9.61%	19,302
	Sunshine Mining Co.	Owner	57.14%	114,766
1979	Hecla Mining Co.	Operator	33.25%	57,266
	Silver Dollar Mining Co.	Operator	9.61%	16,551
	Sunshine Mining Co.	Owner	57.14%	98,411
1980	Hecla Mining Co.	Operator	33.25%	9,493
	Silver Dollar Mining Co.	Operator	9.61%	2,744
	Sunshine Mining Co.	Owner	57.14%	16,313

Total Short Tons of Mined Ore: 8,932,868

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Sunshine Mining Co.	7,110,624	79.60%
Hecla Mining Co.	1,383,234	15.48%
Silver Dollar Mining Co.	399,786	4.48%
Blake Brothers	20,468	0.23%
Yankee Girl Mining Co.	18,757	0.21%

SUNSHINE MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Pete Jasberg's data, Sheet M-4, pp. 1-3. Total short tons from this mine according to Mitchell and Bennett is 9,800,584 (p. 15), or 867,715 tons more than Jasberg's total. HRA is unable to account for the 867,715 ton discrepancy between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1904-1916, Blake Brothers, owner. See Unpublished Annual Inspector Reports by Mine (1912 - 1916-Sunshine)

1917-1920, Blake Brothers and Yankee Girl Mining Co., owners. See Unpublished Annual Inspector Reports by Mine (1917-Sunshine)

1921-1925, Blake Brothers, Yankee Girl Mining Co. and Sunshine Mining Co., owners. See Unpublished Annual Inspector Reports by Mine (1921-Sunshine; 1922-Sunshine; 1923-Sunshine; 1925-Sunshine); Inspector of Mines, *Mining Industry of Idaho* (1922, p. 165; 1925, pp. 221-222)

1926-1957, Sunshine Mining Co., owner. See Inspector of Mines, *Mining Industry of Idaho* (1931, p. 250; 1957, p. 132)

1958-1980, Sunshine Mining Co., owner, and Hecla Mining Co. and Silver Dollar, operators. See Corporate Annual Reports (1957-Sunshine; 1958-Sunshine; 1960-Hecla; 1961-Hecla; 1963-Hecla; 1964-Hecla; 1966-Sunshine; 1967-Sunshine; 1970-Sunshine)

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1917-1920, HRA divided production equally between the owners because both companies are linked to Defendants.

1921-1925, HRA divided production equally between the owners and operator because all three of the companies are linked to Defendants.

1958-1980, HRA attributed 33.25% of production to the Hecla Mining Co., 57.14% to Sunshine Mining Co., and 9.61% to Silver Dollar due to an operating agreement set forth by the companies themselves.

COMPANY-DEFENDANT RELATIONSHIPS

Sunshine Mining Co. is a Defendant.

Hecla Mining Co. is a Defendant.

Production of Silver Dollar, Blake Brothers, and Yankee Girl Mining Co. is included in the share of Sunshine Mining Co. as current owner and successor in interest.

Union Pacific

Union Pacific

This company was a transporter of mined ore in the Coeur d'Alene Basin. It does not have a share in the *production* of mined ore.

William Zanetti

William Zanetti

This person is a partner in Zanetti Brothers, Inc. No attempt was made to determine his share apart from the Zanetti Brothers' share.

Zanetti Bros., Inc.

Draft Defendant Company Report

Zanetti Brothers, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Interstate/Callahan	1950 — 1950	3,893
Sunset	1951 — 1958	46,332
Total Tons of Mined Ore:		50,225
Total Tons Mined in the CDA Basin from 1884 - 1980:		90,702,653
Percent of CDA Basin Total:		0.06%

The above defendant company is successor in interest to the following owner / operators:

Zanetti Bros.

Draft Mine Production Report

Interstate/Callahan Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1906	Various Interstate-Callahan Mine Owners	Owner	100.00% 116
1907	Various Interstate-Callahan Mine Owners	Owner	100.00% 391
1908	Various Interstate-Callahan Mine Owners	Owner	100.00% 223
1909	Various Interstate-Callahan Mine Owners	Owner	100.00% 297
1910	Various Interstate-Callahan Mine Owners	Owner	100.00% 195
1913	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 43,663
1914	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 88,664
1915	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 109,451
1916	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 139,004
1917	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 144,661
1918	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 157,456
1919	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 54,135
1920	Callahan Zinc-Lead Co.	Owner	100.00% 129,833
1922	Callahan Zinc-Lead Co.	Owner	100.00% 20,516
1923	Callahan Zinc-Lead Co.	Owner	100.00% 114,179
1924	Callahan Zinc-Lead Co.	Owner	100.00% 24
37	Callahan Zinc-Lead Co.	Owner	100.00% 16,950
38	Callahan Zinc-Lead Co.	Owner	100.00% 3,900
939	Callahan Zinc-Lead Co.	Owner	100.00% 3,200
1940	Callahan Zinc-Lead Co.	Owner	100.00% 17,616
	Interstate Lease	Operator	0.00% 0
1941	Callahan Zinc-Lead Co.	Owner	100.00% 46,000
1942	Callahan Zinc-Lead Co.	Owner	100.00% 46,870
1943	Callahan Zinc-Lead Co.	Owner	100.00% 25,100
1944	Callahan Zinc-Lead Co.	Owner	100.00% 8,230
1945	Monitor Mining Co.	Owner	100.00% 10,070
1946	Monitor Mining Co.	Owner	100.00% 3,859
1948	Day Mines, Inc.	Owner	100.00% 21,634
1949	Day Mines, Inc.	Owner	100.00% 16,672
1950	Day Mines, Inc.	Owner	50.00% 3,893
	Zanetti Bros.	Operator	50.00% 3,893
1951	Day Mines, Inc.	Owner	100.00% 7,185
1961	Day Mines, Inc.	Owner	100.00% 4,049
1962	Day Mines, Inc.	Owner	100.00% 56,000
1971	Day Mines, Inc.	Owner	100.00% 18,751
1972	Day Mines, Inc.	Owner	100.00% 20,259
1973	Day Mines, Inc.	Owner	100.00% 20,674
1974	Day Mines, Inc.	Owner	100.00% 22,118
1975	Day Mines, Inc.	Owner	100.00% 19,533
1976	Day Mines, Inc.	Owner	100.00% 21,027
1977	Day Mines, Inc.	Owner	100.00% 3,328

Total Short Tons of Mined Ore:

1,423,619

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Consolidated Callahan Interstate Mining Co.	737,034	51.77%
Callahan Zinc-Lead Co.	432,418	30.37%
Day Mines, Inc.	235,123	16.52%
Monitor Mining Co.	13,929	0.98%
Zanetti Bros.	3,893	0.27%
Various Interstate-Callahan Mine Owners	1,222	0.09%
Interstate Lease	0	0.00%

INTERSTATE/CALLAHAN MINE ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Total short tons of mined ore and year-by-year production figures are from Pete Jasberg's data, Sheet No. M-12, pp. 1-3. Total figure of short tons from this mine according to Mitchell and Bennett is 1,423,619 (p. 11).

SOURCES OF OWNERS AND OPERATORS

1913-1919, Consolidated Callahan Interstate Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1912, p. 731; 1913, p. 780; 1916, p. 593; 1919, p. 575).

1920-1924, Callahan Zinc-Lead, owner. See Inspector of Mines, *Mining Industry of Idaho* (1920, p. 92; 1922, pp. 132-133; 1923, p. 146; 1924, p. 161). Also see Moody's Investors Service, *Industrial Manual* (title varies) (1957, p. 839).

1937-1944, Callahan Zinc-Lead, owner. See Inspector of Mines, *Mining Industry of Idaho* (1937, p. 227; 1938, p. 205; 1939, p. 258; 1940, p. 194; 1942, p. 136; 1944, pp. 162-163).

1945-1946, Monitor Mining Co., owner. See U. S. Geological Survey, *Mineral Resources of the United States* (1945, p. 373) and Inspector of Mines, *Mining Industry of Idaho* (1946, p. 201).

1948-1949, Day Mines, Inc., owner. See Inspector of Mines, *Mining Industry of Idaho* (1948, pp. 192, 205; 1950, p. 205; 1951, p. 76).

1950, Day Mines, Inc., owner, and Zanetti Bros., operator. In this year the operator worked the mine in addition to dumps. See U. S. Geological Survey, *Mineral Resources of the United States* (1950, p. 1497).

1951, 1961-1962, 1971-1977, Day Mines, Inc., owner. U. S. Geological Survey, *Mineral Resources of the United States* (1951, p. 1497) and Inspector of Mines, *Mining Industry of Idaho* (1961, pp. 111-112; 1971, p. 80).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

1940, HRA attributed all production to the owner because the operator could not be linked to defendants.

1950, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

COMPANY-DEFENDANT RELATIONSHIPS

Consolidated Callahan Interstate Mining Co. was renamed Callahan Zinc-Lead Co. in 1920. When the company merged with Vulcan Silver-Lead Corp. in 1958, its name changed to Callahan Mining Corp. See Callahan Mining Corp., Annual Report (1958, p. 3). Callahan Mining Corp. is a subsidiary of Coeur d'Alene Mines Corp.

Coeur d'Alene Mines Corp. and Zanetti Bros. are defendants; see Complaint.

Monitor Mining Co. merged with Day Mines in 1947.

Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Various Interstate-Callahan Mine Owners (early period) production is included in the share of Hecla Mining Co. as current owner and successor in interest.

Draft Mine Production Report

Sunset Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1913	William Clark	Owner	100.00% 25
1922	Clark-Montana Realty Co.	Owner	100.00% 76
1923	Clark-Montana Realty Co.	Owner	100.00% 67
1925	Clark-Montana Realty Co.	Owner	100.00% 22
1940	Anaconda Co.	Owner	100.00% 5,603
1941	Anaconda Co.	Owner	100.00% 25,416
1942	Anaconda Co.	Owner	100.00% 20,200
1943	Anaconda Co.	Owner	100.00% 24,917
1944	Anaconda Co.	Owner	100.00% 22,547
1945	Anaconda Co.	Owner	100.00% 24,982
1946	Anaconda Co.	Owner	100.00% 27,656
1947	Anaconda Co.	Owner	100.00% 32,185
1948	Anaconda Co.	Owner	100.00% 26,704
1949	Anaconda Co.	Owner	50.00% 10,792
	Day Mines, Inc.	Operator	50.00% 10,792
1950	Anaconda Co.	Owner	50.00% 17,439
	Day Mines, Inc.	Operator	50.00% 17,439
1951	Anaconda Co.	Owner	34.00% 11,390
	Day Mines, Inc.	Operator	33.00% 11,055
	Zanetti Bros.	Operator	33.00% 11,055
1952	Anaconda Co.	Owner	33.00% 8,255
	Day Mines, Inc.	Operator	34.00% 8,505
	Zanetti Bros.	Operator	33.00% 8,255
1953	Anaconda Co.	Owner	33.00% 10,201
	Day Mines, Inc.	Operator	33.00% 10,201
	Zanetti Bros.	Operator	34.00% 10,510
1954	Anaconda Co.	Owner	34.00% 5,722
	Day Mines, Inc.	Operator	33.00% 5,553
	Zanetti Bros.	Operator	33.00% 5,553
1955	Anaconda Co.	Owner	33.00% 4,838
	Day Mines, Inc.	Operator	34.00% 4,984
	Zanetti Bros.	Operator	33.00% 4,838
1956	Anaconda Co.	Owner	33.00% 1,924
	Day Mines, Inc.	Operator	33.00% 1,924
	Zanetti Bros.	Operator	34.00% 1,982
1957	Anaconda Co.	Owner	34.00% 3,581
	Day Mines, Inc.	Operator	33.00% 3,476
	Zanetti Bros.	Operator	33.00% 3,476
1958	Anaconda Co.	Owner	33.00% 663
	Day Mines, Inc.	Operator	34.00% 683
	Zanetti Bros.	Operator	33.00% 663
1976	Anaconda Co.	Owner	100.00% 2,200

Total Short Tons of Mined Ore:

408,347

Total Short Tons of Mined Ore per Owner/Operator:

Percentage of This Mine's Ore:

Anaconda Co.	287,213	70.34%
Day Mines, Inc.	74,612	18.27%
Zanetti Bros.	46,332	11.35%
Clark-Montana Realty Co.	165	0.04%
William Clark	25	0.01%

SUNSET MINE REPORT ANNOTATIONS

SOURCE OF PRODUCTION FIGURES

Year by year production figures are from Jasberg's data, Sheet P-2. Total short tons from this mine according to Mitchell and Bennett is 355,032. HRA is unable to account for the 43,315-ton difference between Jasberg and Mitchell and Bennett.

SOURCES OF OWNERS AND OPERATORS

1913-1925, William Clark, Clark-Montana Realty Co., owner. See U.S. Geological Survey, Mineral Resources of the United States, (1914, p. 629); Inspector of Mines, Mining Industry of Idaho, (1922; 1923; 1924, p. 163 and p. 181; 1927, p. 195 and p. 216; 1928, p. 179).

1940-1976, Anaconda Co., owner. See Inspector of Mines, Mining Industry of Idaho, (1940; 1971, p. 78).

1949-1976, Day Mines, Inc., operator. See Inspector of Mines, Mining Industry of Idaho, (p. 198), which reports assignment of lease from E.G. Smith to Day Mines, Inc., effective 12-1-1948. Also see U.S. Geological Survey, Mineral Resources of the United States, (1951, p. 1494).

1951-1958, Zanetti Bros., operator. See Inspector of Mines, Mining Industry of Idaho, (1951, p. 70; 1952, p. 108; 1953, p. 143; 1958).

SOURCES OF OWNER/OPERATOR SPLIT SHARES

For 1949-1950, HRA divided production equally between the owner and the operator because both companies are linked to defendants.

For 1951-1958, HRA divided production 34:33:33 between the owner and two operators, because all three companies are either defendants or linked to defendants. Note that the sublease was alternately described as Zanetti Brothers, Korsage and Zanetti, and Korsage and Smith (in 1955). Note also that Mineral Resources of the United States for 1951 (p. 1494) reports that Day Mines, Inc. had a 70% interest with Anaconda Co., while Korsage and Zanetti operated under a sublease.

COMPANY-DEFENDANT RELATIONSHIPS

Anaconda Co. is a subsidiary of ARCO, a Defendant.
Day Mines, Inc. merged with Hecla Mining Co. in 1981.

Zanetti Brothers is a Defendant. The relationship of the Korsage and Zanetti and
Korsage and Smith subleases to Zanetti Brothers is not clear.